



**JUNOS™**  
**Internet Software**

**System Log Messages  
Reference**

***Release 5.6***

Juniper Networks, Inc.  
1194 North Mathilda Avenue  
Sunnyvale, CA 94089  
USA  
408-745-2000  
[www.juniper.net](http://www.juniper.net)

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Editor: Cris Morris  
Covers and template design: Edmonds Design

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## About This Manual

This chapter provides a high-level overview of the *JUNOS Internet Software System Log Messages Reference*.

- Objectives on page xix
- Audience on page xx
- Document Organization on page xxi
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- Documentation Conventions on page xxii
- List of Technical Publications on page xxiii
- Documentation Feedback on page xxiv
- How to Request Support on page xxiv

## Objectives

This manual describes system log messages generated by the JUNOS Internet software. Use the information in the manual to interpret system log messages and determine the appropriate corrective action for error conditions.

This manual documents Release 5.6 of the JUNOS Internet software. To obtain additional information about the JUNOS software—either corrections to information in this manual or information that might have been omitted from this manual—refer to the software release notes.

This manual is not provided in printed form, but is included on the documentation CD-ROM. To obtain the most current version of this manual and the most current version of the software release notes, refer to the product documentation page on the Juniper Networks Web site, which is located at <http://www.juniper.net/>. To order printed copies of other Juniper Networks manuals or a documentation CD-ROM, please contact your sales representative.

**Note**

This version of the *JUNOS Internet Software System Log Messages* manual documents only some of the JUNOS system log messages. The project to document these messages is ongoing, and this manual will be updated for each release of the JUNOS Internet software.

## Audience

This manual is designed for network administrators who are configuring or monitoring a Juniper Networks router. It assumes that you have a broad understanding of networks in general, the Internet in particular, networking principles, and network configuration. This manual assumes that you are familiar with one or more of the following Internet routing protocols: Border Gateway Protocol (BGP), Routing Information Protocol (RIP), Intermediate System-to-Intermediate System (IS-IS), Open Shortest Path First (OSPF), Internet Control Message Protocol (ICMP) router discovery, Internet Group Management Protocol (IGMP), Distance Vector Multicast Routing Protocol (DVMRP), Protocol Independent Multicast (PIM), Multiprotocol Label Switching (MPLS), Resource Reservation Protocol (RSVP), and Simple Network Management Protocol (SNMP).

The target audiences for this manual are:

- Network Operations Center (NOC) personnel who are analyzing system files
- Operations support staff who write the rules for system log parsing tools, such as MicroMuse NetCool
- Personnel who configure the router

## Document Organization

This manual contains the following parts and chapters:

- Preface, “About This Manual” (this chapter), provides a brief description of the contents and organization of this manual and describes how to obtain customer support.
- Part 1, “Overview,” provides an introduction to JUNOS system log messages:
  - Chapter 1, “System Log Messages Overview,” provides an overview of how to configure system logging and interpret system log messages.
- Part 2, “System Log Messages,” lists the system log messages generated by each JUNOS software process, organized alphabetically by the prefix on the message code:
  - Chapter 2, “ACCT System Log Messages,” describes the system log messages generated by the accounting statistics process.
  - Chapter 3, “BOOTPD System Log Messages,” describes the system log messages generated by the boot parameter process (tnp.bootpd).
  - Chapter 4, “CHASSISD System Log Messages,” describes the system log messages generated by the chassis process (chassisd).
  - Chapter 5, “DCD System Log Messages,” describes the system log messages generated by the interface process (dcd).
  - Chapter 6, “FSAD System Log Messages,” describes the system log messages generated by the File System Access process (fsad).
  - Chapter 7, “GGSN System Log Messages,” describes system log messages generated by the Services Physical Interface Cards (PICs) process (serviced).
  - Chapter 8, “JADE System Log Messages,” describes the system log messages generated by the JUNOScript authentication process (jade).
  - Chapter 9, “LIBJNX System Log Messages,” describes system log messages generated by routines in the libjuniper library.
  - Chapter 10, “LIBSERVICED System Log Messages” describes system log messages generated by the Services PICs process (serviced).
  - Chapter 11, “MIB2D System Log Messages,” describes the system log messages generated by the Management Information Base II (MIB II) process (mib2d).
  - Chapter 12, “NASD System Log Messages,” describes the system log messages generated by the Network Access Server process (nasd).
  - Chapter 13, “PWC System Log Messages,” describes the system log messages generated by the Process Watch Controller process (pwc).
  - Chapter 14, “RMOPD System Log Messages,” describes the system log messages generated by the Simple Network Management Protocol (SNMP) remote operations process (rmopd).
  - Chapter 15, “RPD System Log Messages,” describes the system log messages generated by the routing protocol process (rpd).

- Chapter 16, “SERVICED System Log Messages” describes system log messages generated by the Services PICs process (serviced).
- Chapter 17, “SNMPD System Log Messages,” describes the system log messages generated by the SNMP agent process (snmpd).
- Chapter 18, “SNMP System Log Messages,” describes the system log messages generated by processes that perform SNMP operations or generate SNMP traps.
- Chapter 19, “TFTPD System Log Messages,” describes the system log messages generated by the Trivial File Transfer Protocol (TFTP) process (tnp.tftpd).
- Chapter 20, “UI System Log Messages,” describes the system log messages related to the user interface, generated by the command-line interface (CLI) and the management process (mgd).

This manual also contains an index.

## Chapter Organization

Most chapters in this manual consist of reference entries for the system log messages generated by a JUNOS software process. For information about the sections in each entry, see “Interpret System Log Message Descriptions” on page 18.

## Documentation Conventions

This manual uses the following text conventions:

- Statements, commands, filenames, directory names, IP addresses, and configuration hierarchy levels are shown in a sans serif font. In the following example, *stub* is a statement name and `[edit protocols ospf area area-id]` is a configuration hierarchy level:

To configure a stub area, include the *stub* statement at the `[edit protocols ospf area area-id]` hierarchy level:

- In examples, text that you type literally is shown in bold. In the following example, you type the word **show**:

```
[edit protocols ospf area area-id]  
cli# show  
stub <default-metric metric>
```

- Examples of command output are generally shown in a fixed-width font to preserve the column alignment. For example:

```
> show interfaces terse  
Interface      Admin Link Proto Local                      Remote  
at-1/3/0       up    up    inet  1.0.0.1                    --> 1.0.0.2  
at-1/3/0.0     up    up    inet  1.0.0.1                    --> 1.0.0.2  
                iso  
fxp0           up    up  
fxp0.0         up    up    inet  192.168.5.59/24
```

## List of Technical Publications

Table 1 lists the software and hardware books for Juniper Networks routers and describes the contents of each book.

**Table 1: Juniper Networks Technical Documentation**

Book	Description
<b>JUNOS Internet Software Configuration Guides</b>	
<i>Getting Started</i>	Provides an overview of the JUNOS Internet software and describes how to install and upgrade the software. This manual also describes how to configure system management functions and how to configure the chassis, including user accounts, passwords, and redundancy.
<i>Interfaces and Class of Service</i>	Provides an overview of the interface and class-of-service functions of the JUNOS Internet software and describes how to configure the interfaces on the router.
<i>MPLS Applications</i>	Provides an overview of traffic engineering concepts and describes how to configure traffic engineering protocols.
<i>Multicast</i>	Provides an overview of multicast concepts and describes how to configure multicast routing protocols.
<i>Network Management</i>	Provides an overview of network management concepts and describes how to configure various network management features, such as SNMP, accounting options, and cflowd.
<i>Policy Framework</i>	Provides an overview of policy concepts and describes how to configure routing policy, firewall filters, and forwarding options.
<i>Routing and Routing Protocols</i>	Provides an overview of routing concepts and describes how to configure routing, routing instances, and unicast routing protocols.
<i>VPNs</i>	Provides an overview of Layer 2 and Layer 3 Virtual Private Networks (VPNs), describes how to configure VPNs, and provides configuration examples.
<b>JUNOS Internet Software References</b>	
<i>Operational Mode Command Reference: Interfaces</i>	Describes the JUNOS Internet software operational mode commands you use to monitor and troubleshoot interfaces on Juniper Networks M-series and T-series routers.
<i>Operational Mode Command Reference: Protocols, Class of Service, Chassis, and Management</i>	Describes the JUNOS Internet software operational mode commands you use to monitor and troubleshoot most aspects of Juniper Networks M-series and T-series routers.
<i>System Log Messages Reference</i>	Describes how to access and interpret system log messages generated by JUNOS software modules and provides a reference page for each message.
<b>JUNOScript API Documentation</b>	
<i>JUNOScript API Guide</i>	Describes how to use the JUNOScript API to monitor and configure Juniper Networks routers.
<i>JUNOScript API Reference</i>	Provides a reference page for each tag in the JUNOScript API.
<b>JUNOS Internet Software Comprehensive Index</b>	
<i>Comprehensive Index</i>	Provides a complete index of all JUNOS Internet software books and the <i>JUNOScript API Guide</i> .
<b>Hardware Documentation</b>	
<i>Hardware Guide</i>	Describes how to install, maintain, and troubleshoot routers and router components. Each router platform (M5 and M10 routers, M20 router, M40 router, M40e router, M160 router, T320 router, and T640 routing node) has its own hardware guide.
<i>PIC Guide</i>	Describes the router Physical Interface Cards (PICs). Each router platform has its own PIC guide.

## Documentation Feedback

We are always interested in hearing from our customers. Please let us know what you like and do not like about the Juniper Networks documentation, and let us know of any suggestions you have for improving the documentation. Also, let us know if you find any mistakes in the documentation. Send your feedback to [techpubs-comments@juniper.net](mailto:techpubs-comments@juniper.net).

## How to Request Support

For technical support, contact Juniper Networks at [support@juniper.net](mailto:support@juniper.net), or at 1-888-314-JTAC (within the United States) or 408-745-2121 (from outside the United States).

# Part 1

## Overview

- System Log Messages Overview on page 3

.....



# Chapter 1

## System Log Messages Overview

The JUNOS software processes running on the router generate system log messages (also called syslog messages) to record events that occur on the router, including the following:

- Routine operations, such as creation of an Open Shortest Path First (OSPF) protocol adjacency or a user login into the configuration database
- Failure and error conditions, such as failure to access a configuration file or unexpected closure of a connection to a child or peer process
- Emergency or critical conditions, such as router power-down due to excessive temperature

Each system log message identifies the software process that generated the message and briefly describes the operation or error that occurred. This manual provides more detailed information about each system log message and, when applicable, describes possible causes of the message and action you can take to correct error conditions.



**Note**

This version of the *JUNOS Internet Software System Log Messages* manual documents only some of the JUNOS system log messages. Future revisions of this manual, which generally will be released with new versions of the JUNOS Internet software, will likely include additional messages.

This chapter discusses the following topics:

- System Logging Configuration Statements on page 4
- Minimum System Logging Configuration on page 5
- Configure System Logging on page 5
- Display System Log Messages on page 14
- System Log Message Code Prefixes on page 16
- Display System Log Message Descriptions on page 17
- Interpret System Log Message Descriptions on page 18

## System Logging Configuration Statements

To configure the router to log system messages, include the syslog statement at the [edit system] hierarchy level:

```
[edit system]
syslog {
  archive {
    files number;
    size size;
    (world-readable | no-world-readable);
  }
  console {
    facility level;
  }
  file filename {
    facility level;
    archive {
      files number;
      size size;
      (world-readable | no-world-readable);
    }
  }
  host hostname {
    facility level;
    facility-override facility;
    log-prefix string;
  }
  user (username | *) {
    facility level;
  }
}
```

## Minimum System Logging Configuration

For the JUNOS software processes to generate system log messages, you must include the `syslog` statement at the `[edit system]` hierarchy level. Specify at least one destination for system log messages, as described in Table 2. For more information about the configuration statements, see “Configure System Logging” on page 5.

**Table 2: Minimum Configuration Statements for System Logging**

Destination	Minimum Configuration Statements
File	<code>[edit system syslog]</code> <code>file <i>filename</i> {</code> <code>    <i>facility level</i>;</code> <code>}</code>
Remote machine	<code>[edit system syslog]</code> <code>host <i>hostname</i> {</code> <code>    <i>facility level</i>;</code> <code>}</code>
Router console	<code>[edit system syslog]</code> <code>console {</code> <code>    <i>facility level</i>;</code> <code>}</code>
Terminal session of one, several, or all users	<code>[edit system syslog]</code> <code>user (<i>username</i>   *) {</code> <code>    <i>facility level</i>;</code> <code>}</code>

## Configure System Logging

The JUNOS system logging utility is similar to the UNIX `syslogd` utility. When you configure system logging, you can direct messages to one or more destinations:

- To a named file in a local file system, by configuring the file statement. See “Direct Messages to a Log File” on page 7.
- To the terminal session of one or more specific users (or all users) when they are logged into the router, by configuring the user statement. See “Direct Messages to a User Terminal” on page 7.
- To the router console, by configuring the console statement. See “Direct Messages to the Console” on page 8.
- To a remote machine that is running the `syslogd` utility, by configuring the host statement. See “Direct Messages to a Remote Machine” on page 8.

Each message is assigned to a *facility*, which is a group of messages that are either generated by the same software process or concern a similar condition or activity (such as authentication attempts). To log the messages belonging to one or more facilities to a particular destination, specify each facility name as a separate statement within the set of statements for the destination. Table 3 lists the JUNOS system logging facilities.

**Table 3: JUNOS System Logging Facilities**

Facility	Type of Event or Error
any	Any (that is, includes messages from all facilities)
authorization	Authentication and authorization attempts
change-log	Changes to the JUNOS configuration
conflict-log	Configuration that is inconsistent with router hardware
daemon	Actions performed or errors encountered by various system daemons
firewall	Packet filtering actions performed by a firewall filter
ftp	Actions performed or errors encountered by the File Transfer Protocol (FTP) daemon
interactive-commands	Commands issued at the JUNOS command-line interface (CLI) prompt
kernel	Actions performed or errors encountered by the JUNOS kernel
pfe	Actions performed or errors encountered by the Packet Forwarding Engine
user	Actions performed or errors encountered by various user-space processes

Each message is assigned a *severity level*, which indicates how seriously it affects router functioning. When you configure logging for a facility and destination, you specify a severity level for each facility; messages from the facility that are rated at that level or higher are logged to the destination. Table 4 lists the severity levels in order from highest to lowest.

**Table 4: System Log Message Severity Levels**

Severity Level	Description
emergency	System panic or other condition that causes the router to stop functioning
alert	Conditions that require immediate correction, such as a corrupted system database
critical	Critical conditions, such as hard drive errors
error	Error conditions that generally have less serious consequences than errors in the emergency, alert, and critical levels
warning	Conditions that warrant monitoring
notice	Conditions that are not errors but might warrant special handling
info	Events or nonerror conditions of interest
debug	Software debugging messages; specify this level only when so directed by a technical support representative

To prevent log files from growing too large, the JUNOS system logging utility by default writes messages to a sequence of files of a defined size. You can configure the number of files, their maximum size, and who can read them. For more information, see “Configure Archiving of Log Files” on page 11.

When directing messages to a remote machine, you can configure features that make it easier to separate JUNOS-specific messages or messages generated on particular routers. For more information, see “Direct Messages to a Remote Machine” on page 8.

For a statement summary for the syslog statement, see the *JUNOS Internet Software Configuration Guide: Getting Started*.

For more information about configuring system logging, see the following sections:

- Direct Messages to a Log File on page 7
- Direct Messages to a User Terminal on page 7
- Direct Messages to the Console on page 8
- Direct Messages to a Remote Machine on page 8
- Configure Archiving of Log Files on page 11
- Examples: Configure System Logging on page 12

## ***Direct Messages to a Log File***

To direct system log messages to a file on the local disk of the router, include the file statement at the [edit system syslog] hierarchy level:

```
[edit system syslog]
file filename {
  facility level;
  archive {
    files number;
    size size;
    (world-readable | no-world-readable);
  }
}
```

The default directory for log files is /var/log; to specify a different directory on the local disk, include the complete pathname. For the list of logging facilities and severity levels, see Table 3 and Table 4 respectively.

You can also include the archive statement to configure the number, size, and permissions for a log file. For more information, see “Configure Archiving of Log Files” on page 11.

## ***Direct Messages to a User Terminal***

To direct system log messages to the terminal session of one or more specific users (or all users) when they are logged into the router, include the user statement at the [edit system syslog] hierarchy level:

```
[edit system syslog]
user (username | *) {
  facility level;
}
```

Specify one or more JUNOS usernames, separating multiple values with spaces, or use the asterisk (\*) to indicate all users who are logged into the router. For the list of logging facilities and severity levels, see Table 3 and Table 4 respectively.

## Direct Messages to the Console

To direct system log messages to the router console, include the console statement at the [edit system syslog] hierarchy level:

```
[edit system syslog]
console {
    facility level;
}
```

For the list of logging facilities and severity levels, see Table 3 and Table 4 respectively.

## Direct Messages to a Remote Machine

To direct system log messages to a remote machine, include the host statement at the [edit system syslog] hierarchy level:

```
[edit system syslog]
host hostname {
    facility level;
    facility-override facility;
    log-prefix string;
}
```

Specify the remote machine's IP address or fully qualified hostname. The remote machine must be running either the standard syslogd utility or the JUNOS software, but we do not recommend directing messages to another router. For the list of logging facilities and severity levels, see Table 3 and Table 4 respectively.

You can also include the facility-override statement to assign an alternate facility and the log-prefix statement to prepend a prefix to system log messages, as described in the following sections:

- Assign an Alternate Facility on page 8
- Prepend a Prefix on page 11

## Assign an Alternate Facility

Some of the facilities listed in Table 3 are specific to the JUNOS Internet software. When messages are written to a remote machine, they are assigned to a default remote facility that is available with the standard syslogd utility, because the remote machine might not be running JUNOS software. Table 5 lists the default remote facility for each local facility.

Table 5: Default Facilities for Messages Sent to a Remote Machine

Facility on Local Machine	Default Facility on Remote Machine
authorization	authorization
change-log	local6
conflict-log	local5
daemon	daemon
firewall	local3
ftp	ftp

Facility on Local Machine	Default Facility on Remote Machine
interactive-commands	local7
kernel	kernel
pfe	local4
user	user

The logging utility on the remote machine handles all messages in a facility in the same manner, regardless of whether the messages originate on another router or on the remote machine itself. For example, suppose you include the following statements on local-router to write messages from the authorization facility to a remote machine called monitor:

```
[edit system syslog]
host monitor {
    authorization info;
}
```

The default remote facility for the local authorization facility is also authorization. If the logging utility on monitor is configured to write messages belonging to the authorization facility to the file `/var/log/auth-attempts`, the file will contain both the messages generated when users log on to local-router and the messages generated when users log on to monitor. Although the name of the source machine appears in each system log message, the mixing of messages from multiple machines can make it more difficult to analyze the contents of the `auth-attempts` file.

To assign all messages sent to a remote machine to an alternate facility instead of to the default facilities listed in Table 5, include the facility-override statement at the `[edit system syslog host hostname]` hierarchy level:

```
[edit system syslog host hostname]
facility level;
facility-override facility;
```

Table 6 lists the facilities that you can specify in the facility-override statement.

In general, it makes sense to specify an alternate facility that is not already in use on the remote machine, such as one of the `localX` facilities. On the remote machine, you must also configure the logging utility to handle the messages assigned to the alternate facility in the desired manner.

**Table 6: Facilities for the facility-override Statement**

Facility	Description
authorization	Authentication and authorization attempts
daemon	Actions performed or errors encountered by various system daemons
ftp	Actions performed or errors encountered by the File Transfer Protocol (FTP) daemon
kernel	Actions performed or errors encountered by the JUNOS kernel
local0	Local facility number 0
local1	Local facility number 1
local2	Local facility number 2
local3	Local facility number 3
local4	Local facility number 4
local5	Local facility number 5
local6	Local facility number 6
local7	Local facility number 7
user	Actions performed or errors encountered by various user-space processes

*Examples: Assign an Alternate Facility*

Log all messages generated on the local router at the error level or higher to the local0 facility on the remote machine called monitor:

```
[edit system syslog]
host monitor {
  any error;
  facility-override local0;
}
```

Configure two routers located in California and two routers located in New York to send messages to a single remote machine called central-logger. The messages from California are aggregated into one facility (local1) and the messages from New York into another facility (local2).

- Configure California routers to aggregate messages in the local1 facility:

```
[edit system syslog]
host central-logger {
  change-log info;
  facility-override local1;
}
```

- Configure New York routers to aggregate messages in the local2 facility:

```
[edit system syslog]
host central-logger {
  change-log info;
  facility-override local2;
}
```

On central-logger, you could then configure the system logging utility to write messages from the local1 facility to /var/log/california-config and the messages from the local2 facility to /var/log/new-york-config.

## Prepend a Prefix

To prepend a string to every system log message sent to a remote machine, include the log-prefix statement at the [edit system syslog host *hostname*] hierarchy level:

```
[edit system syslog host hostname]
  facility level;
  log-prefix string;
```

The prefix string can contain any alphanumeric character other than a space, the equal sign (=), or the colon (:). A colon and a space are appended to the string when the system log messages are written to the log.

### Example: Prepend a Prefix

Prepend the string M40 to all messages to indicate that the router is an M40 router, and send the messages to the remote machine hardware-logger:

```
[edit system syslog]
host hardware-logger {
  any info;
  log-prefix M40;
}
```

When these configuration statements are included on a router called origin1, a message in the system logging file on hardware-logger looks like the following:

```
Mar 9 17:33:23 origin1 M40: mgd[477]: UI_CMDLINE_READ_LINE: user 'root', command 'run
show version'
```

## Configure Archiving of Log Files

By default, the JUNOS logging facility stops writing messages to a log file when the file reaches 128 KB in size. It closes the file and adds a numerical suffix, then opens and directs messages to a new file with the original name. By default, it creates up to 10 files before it begins overwriting the contents of the oldest file. The logging utility by default also limits the users who can read log files to the root user and users who have the JUNOS maintenance permission.

To configure different values that apply to all log files, include the archive statement at the [edit system syslog] hierarchy level:

```
[edit system syslog]
archive {
  files number;
  size size;
  (world-readable | no-world-readable);
}
```

To configure different values that apply to a particular log file, include the archive statement at the [edit system syslog file *filename*] hierarchy level:

```
[edit system syslog]
file filename {
    facility level;
    archive {
        files number;
        size size;
        (world-readable | no-world-readable);
    }
}
```

You can specify from 1 through 1000 files and a maximum size for each file of 64 KB (64k) through 1 GB (1g). To enable all users to read log files, include the world-readable statement. To restore the default permissions, include the no-world-readable statement.

## Examples: Configure System Logging

Configure the handling of messages of various types, as described in the comments. Information is logged to two files, to a remote machine, to the terminal of user alex, and to the console:

```
[edit system]
syslog {
    /* write all security-related messages to file /var/log/security */
    file security {
        authorization info;
        interactive-commands info;
    }
    /* write messages about potential problems to file /var/log/messages: messages */
    /* from "authorization" facility at level "notice" and above, messages from */
    /* all other facilities at level "warning" and above */
    file messages {
        authorization notice;
        any warning;
    }
    /* write all messages at level "critical" and above to terminal of user "alex" if she */
    /* is logged in */
    user alex {
        any critical;
    }
    /* write all messages from the "daemon" facility at level "info" and above, and messages */
    /* from all other facilities at level "warning" and above, to the machine junipero.berry.net */
    host junipero.berry.net {
        daemon info;
        any warning;
    }
    /* write all messages at level "error" or above to the system console */
    console {
        any error;
    }
}
```

Log messages about all CLI commands entered by users, and all authentication or authorization attempts, both to the file `cli-commands` and to the terminal of any user who is logged in:

```
[edit system]
syslog {
  file cli-commands {
    interactive-commands info;
    authorization info;
  }
  user * {
    interactive-commands info;
    authorization info;
  }
}
```

Configure the handling of messages generated when users issue JUNOS CLI commands, by specifying the interactive-commands facility at the following severity levels:

- **info**—Logs a message when users issue any command at the CLI operational or configuration mode prompt. The example writes the messages to the file `/var/log/user-actions`.
- **notice**—Logs a message when users issue the configuration mode commands `rollback` and `commit`. The example writes the messages to the terminal of user `philip`.
- **warning**—Logs a message when users issue a command that restarts a software process. The example writes the messages to the console.

```
[edit system]
syslog {
  file user-actions {
    interactive-commands info;
  }
  user philip {
    interactive-commands notice;
  }
  console {
    interactive-commands warning;
  }
}
```

Log all changes in the state of alarms to the file `/var/log/alarms`:

```
[edit system]
syslog {
  file alarms {
    kernel warning;
  }
}
```

## Display System Log Messages

To display system log messages, enter JUNOS CLI operational mode and issue either of the following commands:

```
user@host> show log log-filename
user@host> file show log-file-pathname
```

For more information about the commands, see the *JUNOS Internet Software Operational Mode Command Reference: Protocols, Class of Service, Chassis, and Management*.

System log messages have the following syntax:

```
timestamp [router-name] software-process[process-ID]: message-code: message-text
```

Table 7 describes the fields in each message.

**Table 7: Fields in System Log Messages**

System Log Message Field	Description
<i>timestamp</i>	Time at which the message was logged.
<i>[router-name]</i>	Router name.
<i>software-process[process-ID]:</i>	Name and process identifier (PID) of the JUNOS software process that generated the message.
<i>message-code:</i>	Code that identifies the type of message. The name begins with a prefix that identifies the generating software process or library. The entries in this manual are ordered alphabetically by this prefix.  Table 8 lists and describes the software processes that generate the messages described in this manual.
<i>message-text</i>	Text of the system log message.

## Examples: Display System Log Messages

Display the contents of the system log file `/var/log/messages`. (The `/var/log` directory is the default location for log files, so you do not need to include it in the filename. The messages filename is a commonly configured filename.)

**# cli**

user@host> **show log messages**

Apr 11 06:27:25 [host] mgd.last[1657]: UI\_SCHEMA\_MISMATCH\_MINOR: Schema minor version mismatch for package 6 (7. vs. 8)

Apr 11 06:27:25 [host] mgd.last[1657]: UI\_DBASE\_MISMATCH\_SEQUENCE: Database header sequence numbers mismatch for file '/var/db/juniper.db'

Apr 11 06:28:00 [host] mgd[629]: UI\_CHILD\_WAITPID: waitpid failed: pid 637, rc -1, status ffffffff: No child processes

Apr 11 13:12:59 [host] mib2d[359]: SNMP\_TRAP\_LINK\_DOWN: ifIndex 33, ifAdminStatus up(1), ifOperStatus down(2), ifName at-3/1/0

Display the contents of the file `/var/log/snmp-traps`. With this command, specify the full pathname of the file:

**# cli**

user@host> **file show /var/log/snmp-traps**

Apr 10 19:23:41 [host] mib2d[359]: SNMP\_TRAP\_LINK\_DOWN: ifIndex 33, ifAdminStatus up(1), ifOperStatus down(2), ifName at-3/1/0

Apr 10 19:23:41 [host] mib2d[359]: SNMP\_TRAP\_LINK\_DOWN: ifIndex 25, ifAdminStatus up(1), ifOperStatus down(2), ifName at-3/1/0.0

Apr 10 19:23:41 [host] mib2d[359]: SNMP\_TRAP\_LINK\_DOWN: ifIndex 21, ifAdminStatus up(1), ifOperStatus down(2), ifName at-3/2/0

## System Log Message Code Prefixes

System log message names begin with a prefix that indicates which JUNOS software process or subroutine library generated the message. Table 8 lists the prefixes for the messages described in this manual, briefly describes the source process or library, and refers you to the chapter that describes the messages with that prefix.

**Table 8: Prefixes for System Log Message Codes**

Message Code Prefix	Generating Process or Library
ACCT_	Accounting statistics process, which collects and records interface, filter, and class usage statistics. See "ACCT System Log Messages" on page 21.
BOOTPD_	Boot parameter process (tnp.bootpd), which provides the appropriate boot string to hardware components as they initialize. See "BOOTPD System Log Messages" on page 25.
CHASSISD_	Chassis process (chassisd), which controls the hardware components in the router. See "CHASSISD System Log Messages" on page 31.
DCD_	Interface process (dcd), which controls the physical interface devices and logical interfaces in the router. See "DCD System Log Messages" on page 45.
FSAD_	File System Access process (fsad), which obtains boot-time information used by J20 gateway GPRS support node control-plane and user-plane (GGSN-C and GGSN-U) Physical Interface Cards (PICs) as they initialize. See "FSAD System Log Messages" on page 49.
GGSN_	Services PICs process (serviced), which provides the user interface for management and configuration of gateway GPRS support node control (GGSN-C) PICs. See "GGSN System Log Messages" on page 57.
JADE_	JUNOScript authentication process (jade), which authenticates and checks authorization of client applications using the JUNOScript API. See "JADE System Log Messages" on page 59.
LIBJNX_	The libjuniper library, which includes routines for creating and managing child processes, parsing machine and interface addresses, tracing, file I/O, and other functions. See "LIBJNX System Log Messages" on page 61.
LIBSERVICED_	Services PICs process (serviced, previously described for GGSN_ messages). See "LIBSERVICED System Log Messages" on page 65.
MIB2D_	Management Information Base II (MIB II) process (mib2d), which services requests for information gathered and reported by the Simple Network Management Protocol (SNMP). See "MIB2D System Log Messages" on page 67.
NASD_	Network Access Server process (nasd), which authenticates peers at the interface level. See "NASD System Log Messages" on page 73.
PWC_	Process Watch Controller process (pwc), which monitors GGSN-C processes for failures. See "PWC System Log Messages" on page 85.
RMOPD_	Remote SNMP operations process (rmopd), which services SNMP requests for execution of ping and traceroute operations. See "RMOPD System Log Messages" on page 95.
RPD_	Routing protocol process (rpd), which controls the routing protocols that run on the router. See "RPD System Log Messages" on page 101.
SERVICED_	Services PICs process (serviced, previously described for GGSN_ messages). See "SERVICED System Log Messages" on page 125.
SNMPD_	SNMP agent process (snmpd), which responds to SNMP requests. As necessary, it passes the requests to subagent processes running on its machine and forwards the traps they generate to the SNMP manager. See "SNMPD System Log Messages" on page 135.

Message Code Prefix	Generating Process or Library
SNMP_	Any JUNOS process that performs SNMP operations or is instrumented to generate a system log message when it sends an SNMP trap. See “SNMP System Log Messages” on page 153.
TFTPD_	Trivial File Transfer Protocol (TFTP) process (tnp.tftpd), which services requests from hardware components for the configuration files they use during initialization. See “TFTPD System Log Messages” on page 159.
UI_	Command-line interface (CLI) and management process (mgd), which together form the JUNOS user interface that accepts and processes input from users and client applications. See “UI System Log Messages” on page 165.

## Display System Log Message Descriptions

This manual lists the messages available at the time of its publication. To display the most current list of messages, enter JUNOS CLI operational mode and issue the following command:

```
user@host> help syslog ?
```

To display the complete description of a particular message, substitute its name for the variable *code*:

```
user@host> help syslog code
```

For a description of the fields in a system log message description, see “Interpret System Log Message Descriptions” on page 18.

### Examples: Display System Log Message Descriptions

Display the list of all currently available system log message descriptions:

```
user@host> help syslog ?
Possible completions:
<syslog-tag>          Syslog tag
BOOTPD_ARG_ERR        Command-line option was invalid
BOOTPD_BAD_ID          Request failed because assembly ID was unknown
BOOTPD_BOOTSTRING      tnp.bootpd provided boot string
BOOTPD_CONFIG_ERR      tnp.bootpd could not parse configuration file; used default settings
BOOTPD_CONF_OPEN       tnp.bootpd could not open configuration file
BOOTPD_DUP_REV          Extra boot string definitions for revision were ignored
...(more 2%)...
```

Display the description of the UI\_CMDLINE\_READ\_LINE message:

```
user@host> help syslog UI_CMDLINE_READ_LINE
Name:      UI_CMDLINE_READ_LINE
Message:   User '<user>', command '<input>'
Help:      User entered command at CLI prompt
Description: The indicated user typed the indicated command at the CLI prompt and pressed the
Enter key, sending the command string to the management process (mgd).
Type:      Event: This message reports an event, not an error
Severity:  info
```

## Interpret System Log Message Descriptions

This manual uses a reference page format to describe system log messages. Table 9 describes the sections in a reference entry.

**Table 9: System Log Message Fields**

Field	Description
System Log Message	<p>Text of the message displayed on the console and placed in the log file.</p> <p>The first line is the message code in all capital letters. The prefix on each code identifies the JUNOS software process or library that generated the message and the rest of the code indicates the specific event or error. Table 8 lists the prefixes for which this manual includes reference entries.</p> <p>The second line in this field is a brief description generated by the JUNOS software process or library. When the message is written to a system log, a specific value is substituted for each variable name that appears in italics in the reference entries.</p>
Description	More detailed explanation of the message.
Type	<p>Category to which the message belongs:</p> <ul style="list-style-type: none"> <li>■ Error: The message reports an error or failure condition that might require corrective action.</li> <li>■ Event: The message reports a condition or occurrence that is considered a normal operation not requiring corrective action.</li> </ul>
Severity	Message severity level as described in Table 4.
Cause	(Optional) Possible cause of the operation that generated the system log message. There can be more than one cause.
Action	(Optional) Action to perform to resolve the error or failure condition described in the message. If this field does not appear in an entry, either no action is required or the action is self-explanatory.

# Part 2

## System Log Messages

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- BOOTPD System Log Messages on page 25
- CHASSISD System Log Messages on page 31
- DCD System Log Messages on page 45
- FSAD System Log Messages on page 49
- GGSN System Log Messages on page 57
- JADE System Log Messages on page 59
- LIBJNX System Log Messages on page 61
- LIBSERVICED System Log Messages on page 65
- MIB2D System Log Messages on page 67
- NASD System Log Messages on page 73
- PWC System Log Messages on page 85
- RMOPD System Log Messages on page 95
- RPD System Log Messages on page 101
- SERVICED System Log Messages on page 125
- SNMPD System Log Messages on page 135
- SNMP System Log Messages on page 153
- TFTPDP System Log Messages on page 159
- UI System Log Messages on page 165



# Chapter 2

## ACCT System Log Messages

This chapter describes messages generated by the accounting statistics process, which collects and records interface, filter, and class usage statistics.

- ACCT\_ACCOUNTING\_FERROR on page 21
- ACCT\_ACCOUNTING\_FOPEN\_ERROR on page 22
- ACCT\_ACCOUNTING\_SMALL\_FILE\_SIZE on page 22
- ACCT\_BAD\_RECORD\_FORMAT on page 22
- ACCT\_CU\_RTSLIB\_ERROR on page 23
- ACCT\_GETHOSTNAME\_ERROR on page 23
- ACCT\_MALLOC\_FAILURE on page 23
- ACCT\_UNDEFINED\_COUNTER\_NAME on page 24
- ACCT\_XFER\_FAILED on page 24
- ACCT\_XFER\_POPEN\_FAIL on page 24

### ACCT\_ACCOUNTING\_FERROR

<b>System Log Message</b>	ACCT_ACCOUNTING_FERROR: Unexpected error <i>errno</i> from file <i>filename</i>
<b>Description</b>	An error prevented the accounting statistics process from processing the indicated file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning

## ACCT\_ACCOUNTING\_FOPEN\_ERROR

**System Log Message** ACCT\_ACCOUNTING\_FOPEN\_ERROR:  
Failed to open file *filename*: *errno*

**Description** The accounting statistics process could not open the indicated file.

**Type** Error: An error occurred

**Severity** warning

## ACCT\_ACCOUNTING\_SMALL\_FILE\_SIZE

**System Log Message** ACCT\_ACCOUNTING\_SMALL\_FILE\_SIZE:  
File *filename* size (*filesize*) is smaller than record size (*record-size*)

**Description** The size limit configured for the indicated file is smaller than the record to be written to it.

**Type** Error: An error occurred

**Severity** warning

## ACCT\_BAD\_RECORD\_FORMAT

**System Log Message** ACCT\_BAD\_RECORD\_FORMAT:  
Invalid statistics record: *record*

**Description** The number of columns in the indicated record does not match the number of columns in the accounting profile.

**Type** Error: An error occurred

**Severity** warning

## ACCT\_CU\_RTSLIB\_ERROR

<b>System Log Message</b>	ACCT_CU_RTSLIB_ERROR: Error getting class usage statistics for interface <i>interface.unit: errmsg</i>
<b>Description</b>	The accounting statistics process could not obtain current class usage statistics.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## ACCT\_GETHOSTNAME\_ERROR

<b>System Log Message</b>	ACCT_GETHOSTNAME_ERROR: Error <i>errno</i> trying to get hostname
<b>Description</b>	A call to the gethostname() function failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## ACCT\_MALLOC\_FAILURE

<b>System Log Message</b>	ACCT_MALLOC_FAILURE: Memory allocation failed while reallocating filter profile interface list
<b>Description</b>	The accounting statistics process could not allocate memory from the heap.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## ACCT\_UNDEFINED\_COUNTER\_NAME

<b>System Log Message</b>	ACCT_UNDEFINED_COUNTER_NAME: Counter <i>profile-name</i> in accounting profile <i>counter-name</i> is not defined in a firewall using this filter profile
<b>Description</b>	The indicated filter profile referenced the indicated counter name, which is not defined in a firewall filter that uses the filter profile.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning
<b>Action</b>	Change the filter profile counter name to match the name defined in the firewall configuration.

## ACCT\_XFER\_FAILED

<b>System Log Message</b>	ACCT_XFER_FAILED: Error transferring <i>filename</i>
<b>Description</b>	An attempt to transfer the indicated file failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## ACCT\_XFER\_POPEN\_FAIL

<b>System Log Message</b>	ACCT_XFER_POPEN_FAIL: Error <i>errno</i> in invoking command <i>command</i> to transfer file <i>filename</i>
<b>Description</b>	A call to the popen() function failed when the accounting statistics process invoked the indicated command to transfer the indicated file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

# Chapter 3

## BOOTPD System Log Messages

This chapter describes messages generated by the boot parameter process (tnp.bootpd), which provides the appropriate boot string to hardware components as they initialize.

- BOOTPD\_ARG\_ERR on page 26
- BOOTPD\_BAD\_ID on page 26
- BOOTPD\_BOOTSTRING on page 26
- BOOTPD\_CONFIG\_ERR on page 26
- BOOTPD\_CONF\_OPEN on page 27
- BOOTPD\_DUP\_REV on page 27
- BOOTPD\_DUP\_SLOT on page 27
- BOOTPD\_MODEL\_CHK on page 28
- BOOTPD\_MODEL\_ERR on page 28
- BOOTPD\_NEW\_CONF on page 28
- BOOTPD\_NO\_BOOTSTRING on page 29
- BOOTPD\_NO\_CONFIG on page 29
- BOOTPD\_PARSE\_ERR on page 29
- BOOTPD\_REPARSE on page 29
- BOOTPD\_SELECT\_ERR on page 30
- BOOTPD\_TIMEOUT on page 30

## BOOTPD\_ARG\_ERR

<b>System Log Message</b>	BOOTPD_ARG_ERR: Ignoring unknown option <i>-option-letter</i>
<b>Description</b>	The indicated option was provided on the 'tnp.bootpd' command line and is invalid. The boot parameter process (tnp.bootpd) initialized but ignored the invalid option.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning
<b>Action</b>	Remove the invalid option from the 'tnp.bootpd' command line.

## BOOTPD\_BAD\_ID

<b>System Log Message</b>	BOOTPD_BAD_ID: Unexpected ID 0 <i>xassembly-id</i>
<b>Description</b>	As each hardware component on the router initializes, it requests a boot string from the boot parameter process (tnp.bootpd). The boot strings are defined in the configuration file tnp.bootpd. A request failed because it included the indicated assembly ID, for which there is no definition in the file.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## BOOTPD\_BOOTSTRING

<b>System Log Message</b>	BOOTPD_BOOTSTRING: Boot string: <i>bootstring</i>
<b>Description</b>	As each hardware component on the router initializes, it requests a boot string from the boot parameter process (tnp.bootpd). tnp.bootpd responded with the indicated boot string.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## BOOTPD\_CONFIG\_ERR

<b>System Log Message</b>	BOOTPD_CONFIG_ERR: Problems with configuration file ' <i>filename</i> ', using defaults
<b>Description</b>	The boot parameter process (tnp.bootpd) could not read the indicated configuration file, so it initialized using default settings defined at compile time.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Action</b>	Correct the configuration file.

## BOOTPD\_CONF\_OPEN

<b>System Log Message</b>	BOOTPD_CONF_OPEN: Unable to open configuration file ' <i>filename</i> '
<b>Description</b>	The boot parameter process (tnp.bootpd) could not open the indicated configuration file, so it initialized using default settings defined at compile time.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice
<b>Action</b>	Contact your technical support representative.

## BOOTPD\_DUP\_REV

<b>System Log Message</b>	BOOTPD_DUP_REV: Duplicate revision: <i>major:minor</i>
<b>Description</b>	As each hardware component on the router initializes, it requests a boot string from the boot parameter process (tnp.bootpd). The boot strings are defined in the configuration file for tnp.bootpd. There was more than one definition in the file for the indicated revision of a component, so tnp.bootpd used the first definition it found.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice
<b>Action</b>	Remove the extra definitions from the configuration file.

## BOOTPD\_DUP\_SLOT

<b>System Log Message</b>	BOOTPD_DUP_SLOT: Duplicate slot default: <i>slot</i>
<b>Description</b>	As each hardware component on the router initializes, it requests a boot string from the boot parameter process (tnp.bootpd). The boot strings are defined in the configuration file for tnp.bootpd. There was more than one definition in the file for the indicated slot (combination of component assembly ID and revision), so tnp.bootpd used the first definition it found.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice
<b>Action</b>	Remove the extra definitions from the configuration file.

## BOOTPD\_MODEL\_CHK

<b>System Log Message</b>	BOOTPD_MODEL_CHK: Unexpected ID <i>0xid</i> for model <i>model</i>
<b>Description</b>	As each hardware component on the router initializes, it requests a boot string from the boot parameter process (tnp.bootpd). A request failed because it included the indicated assembly ID, which is inconsistent with the router's model number.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning
<b>Action</b>	Contact your technical support representative.

## BOOTPD\_MODEL\_ERR

<b>System Log Message</b>	BOOTPD_MODEL_ERR: Unsupported model <i>model</i> , assuming M40 defaults
<b>Description</b>	As each hardware component on the router initializes, it requests a boot string from the boot parameter process (tnp.bootpd). The boot strings are defined in the configuration file for tnp.bootpd. A request included a model number for which there was no definition in the configuration file, so tnp.bootpd provided the boot string appropriate for an M40 router.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning
<b>Action</b>	Contact your technical support representative.

## BOOTPD\_NEW\_CONF

<b>System Log Message</b>	BOOTPD_NEW_CONF: New configuration installed
<b>Description</b>	The boot parameter process (tnp.bootpd) loaded a new configuration file.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## BOOTPD\_NO\_BOOTSTRING

<b>System Log Message</b>	BOOTPD_NO_BOOTSTRING: No boot string found for type <i>board-type major:minor command-or-file</i>
<b>Description</b>	As each hardware component on the router initializes, it requests a boot string from the boot parameter process (tnp.bootpd). The boot strings are defined in the configuration file for tnp.bootpd. The file did not include a boot string for the hardware component with the indicated characteristics.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning
<b>Action</b>	Contact your technical support representative.

## BOOTPD\_NO\_CONFIG

<b>System Log Message</b>	BOOTPD_NO_CONFIG: No configuration file ' <i>filename</i> ', using defaults
<b>Description</b>	The boot parameter process (tnp.bootpd) could not open the indicated configuration file, so it initialized using default settings defined at compile time.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## BOOTPD\_PARSE\_ERR

<b>System Log Message</b>	BOOTPD_PARSE_ERR: <i>file: number</i> parse errors on SIGHUP
<b>Description</b>	There was an error in the configuration file for the boot parameter process (tnp.bootpd), so it initialized using default settings defined at compile time.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Action</b>	Correct the configuration file.

## BOOTPD\_REPARSE

<b>System Log Message</b>	BOOTPD_REPARSE: Reparsing configuration file ' <i>filename</i> '
<b>Description</b>	The boot parameter process (tnp.bootpd) reparsed the indicated configuration file.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## BOOTPD\_SELECT\_ERR

**System Log Message** BOOTPD\_SELECT\_ERR:  
select: *error-message*

**Description** The boot parameter process (tnp.bootpd) issued the select() system call, which returned the indicated error message.

**Type** Error: An error occurred

**Severity** warning

**Action** Contact your technical support representative.

## BOOTPD\_TIMEOUT

**System Log Message** BOOTPD\_TIMEOUT:  
Timeout *timeout-value* unreasonable

**Description** The indicated timeout value was specified for the -t argument on the 'tnp.bootpd' command line, or no value was provided. The value was not acceptable, so the boot parameter process (tnp.bootpd) initialized using the default value of 30 seconds.

**Type** Error: An error occurred

**Severity** warning

**Action** Provide an acceptable value for the -t argument; acceptable values are '1' (second) and larger.

# Chapter 4

## CHASSISD System Log Messages

This chapter describes messages generated by the chassis process (chassisd), which controls hardware components on the router.

- CHASSISD\_ARGUMENT\_ERROR on page 33
- CHASSISD\_BLOWERS\_SPEED on page 33
- CHASSISD\_BLOWERS\_SPEED\_FULL on page 33
- CHASSISD\_CB\_READ on page 33
- CHASSISD\_COMMAND\_ACK\_ERROR on page 34
- CHASSISD\_COMMAND\_ACK\_SF\_ERROR on page 34
- CHASSISD\_CONCAT\_MODE\_ERROR on page 34
- CHASSISD\_CONFIG\_INIT\_ERROR on page 35
- CHASSISD\_CONFIG\_WARNING on page 35
- CHASSISD\_EXISTS on page 35
- CHASSISD\_EXISTS\_TERM\_OTHER on page 35
- CHASSISD\_FILE\_OPEN on page 36
- CHASSISD\_FILE\_STAT on page 36
- CHASSISD\_FRU\_IPC\_WRITE\_ERROR\_EXT on page 36
- CHASSISD\_FRU\_STEP\_ERROR on page 36
- CHASSISD\_GETTIMEOFDAY on page 37
- CHASSISD\_HOST\_TEMP\_READ on page 37
- CHASSISD\_IFDEV\_DETACH\_ALL\_PSEUDO on page 37
- CHASSISD\_IFDEV\_DETACH\_FPC on page 37
- CHASSISD\_IFDEV\_DETACH\_PIC on page 38
- CHASSISD\_IFDEV\_DETACH\_PSEUDO on page 38

- CHASSISD\_IFDEV\_DETACH\_TLV\_ERROR on page 38
- CHASSISD\_IFDEV\_GET\_BY\_INDEX\_FAIL on page 38
- CHASSISD\_IPC\_MSG\_QFULL\_ERROR on page 39
- CHASSISD\_IPC\_UNEXPECTED\_RECV on page 39
- CHASSISD\_IPC\_WRITE\_ERR\_NO\_PIPE on page 39
- CHASSISD\_IPC\_WRITE\_ERR\_NULL\_ARGS on page 39
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## CHASSISD\_ARGUMENT\_ERROR

<b>System Log Message</b>	CHASSISD_ARGUMENT_ERROR: Unknown option <i>option-letter</i>
<b>Description</b>	The indicated option was provided on the 'chassisd' command line and is invalid. The chassis process (chassisd) initialized but ignored the invalid option.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Action</b>	Contact your technical support representative.

## CHASSISD\_BLOWERS\_SPEED

<b>System Log Message</b>	CHASSISD_BLOWERS_SPEED: Fans and impellers are now running at normal speed
<b>Description</b>	The fans and impellers were running at the normal speed.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## CHASSISD\_BLOWERS\_SPEED\_FULL

<b>System Log Message</b>	CHASSISD_BLOWERS_SPEED_FULL: Fans and impellers being set to full speed [ <i>reason</i> ]
<b>Description</b>	The chassis process (chassisd) increased the speed of fans and impellers to the maximum for the indicated reason.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## CHASSISD\_CB\_READ

<b>System Log Message</b>	CHASSISD_CB_READ: Error reading midplane ID EEPROM, errno <i>error-number</i>
<b>Description</b>	The chassis process (chassisd) could not read the EEPROM on the midplane.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Action</b>	Contact your technical support representative.

## CHASSISD\_COMMAND\_ACK\_ERROR

<b>System Log Message</b>	CHASSISD_COMMAND_ACK_ERROR: <i>function-name: fru-type online ack code error-number - - error-message, fru-type fru-slot</i>
<b>Description</b>	The indicated error occurred when the indicated FRU sent a message to indicate it was online.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Action</b>	Contact your technical support representative.

## CHASSISD\_COMMAND\_ACK\_SF\_ERROR

<b>System Log Message</b>	CHASSISD_COMMAND_ACK_SF_ERROR: <i>function-name error - - error-message, code error-number, SFM sfm-plane, FPC fpc-slot</i>
<b>Description</b>	The chassis process (chassisd) requires an acknowledgment from each SFM before it registers an FPC as online. The acknowledgment message from the indicated SFM failed for the indicated FPC.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Action</b>	Contact your technical support representative.

## CHASSISD\_CONCAT\_MODE\_ERROR

<b>System Log Message</b>	CHASSISD_CONCAT_MODE_ERROR: <i>Cannot set MLFR bundles for FPC fpc-slot PIC pic-slot</i>
<b>Description</b>	The chassis process (chassisd) could not set the PIC in the indicated slot of the indicated FPC to no-concatenate mode.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning

## CHASSISD\_CONFIG\_INIT\_ERROR

<b>System Log Message</b>	CHASSISD_CONFIG_INIT_ERROR: Problems with configuration file ' <i>configuration-file</i> '; using defaults
<b>Description</b>	The chassis process (chassisd) could not parse the indicated configuration file, and used default values while initializing.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Action</b>	Contact your technical support representative.

## CHASSISD\_CONFIG\_WARNING

<b>System Log Message</b>	CHASSISD_CONFIG_WARNING: <i>function-name: warning-message, FPC fpc-slot PIC fru-slot</i>
<b>Description</b>	The chassis process (chassisd) discovered that the configuration for the indicated PIC was invalid.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning

## CHASSISD\_EXISTS

<b>System Log Message</b>	CHASSISD_EXISTS: chassisd already running; exiting
<b>Description</b>	The chassis process (chassisd) exited because it discovered that another chassisd process was already running.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error

## CHASSISD\_EXISTS\_TERM\_OTHER

<b>System Log Message</b>	CHASSISD_EXISTS_TERM_OTHER: Killing existing chassisd and exiting
<b>Description</b>	The chassis process (chassisd) discovered that another chassisd process was already running. It terminated the other process and exited.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error

## CHASSISD\_FILE\_OPEN

<b>System Log Message</b>	CHASSISD_FILE_OPEN: File open: <i>filename</i> , error: <i>error-number</i> - - <i>error-string</i>
<b>Description</b>	The chassis process (chassisd) failed to open a file for the indicated reason.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## CHASSISD\_FILE\_STAT

<b>System Log Message</b>	CHASSISD_FILE_STAT: File stat: <i>filename</i> , error: <i>error-number</i> - - <i>error-string</i>
<b>Description</b>	The chassis process (chassisd) could not open the indicated file because it could not obtain its status.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## CHASSISD\_FRU\_IPC\_WRITE\_ERROR\_EXT

<b>System Log Message</b>	CHASSISD_FRU_IPC_WRITE_ERROR_EXT: ipc_msg_write FRU <i>fru-name-string</i> # <i>fru-slot</i> , errno <i>error-number</i> ; <i>error-string</i>
<b>Description</b>	The chassis process (chassisd) could not send an IPC message to the indicated FRU, because of the indicated error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning

## CHASSISD\_FRU\_STEP\_ERROR

<b>System Log Message</b>	CHASSISD_FRU_STEP_ERROR: <i>fru-name-string</i> <i>fru-slot-number</i> at step <i>step-number</i>
<b>Description</b>	The FRU is in an unknown step during power-on sequence.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## CHASSISD\_GETTIMEOFDAY

<b>System Log Message</b>	CHASSISD_GETTIMEOFDAY: Unexpected error from gettimeofday: <i>error-number</i> - <i>error-string</i>
<b>Description</b>	The chassis process (chassisd) could not obtain the time of day because of the indicated error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning

## CHASSISD\_HOST\_TEMP\_READ

<b>System Log Message</b>	CHASSISD_HOST_TEMP_READ: Error reading host temperature sensor
<b>Description</b>	The chassis process (chassisd) could not read the temperature sensors on the router.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	notice

## CHASSISD\_IFDEV\_DETACH\_ALL\_PSEUDO

<b>System Log Message</b>	CHASSISD_IFDEV_DETACH_ALL_PSEUDO: ifdev_detach(pseudo devices: all)
<b>Description</b>	The chassis process (chassisd) detached the interface devices (ifdevs) for all pseudodevices.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## CHASSISD\_IFDEV\_DETACH\_FPC

<b>System Log Message</b>	CHASSISD_IFDEV_DETACH_FPC: ifdev_detach( <i>fpc-slot-number</i> )
<b>Description</b>	The chassis process (chassisd) detached the interface devices (ifdevs) for all PICs on the indicated FPC.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## CHASSISD\_IFDEV\_DETACH\_PIC

<b>System Log Message</b>	CHASSISD_IFDEV_DETACH_PIC: ifdev_detach_pic( <i>fpc-slot-number/pic-slot-number</i> )
<b>Description</b>	The chassis process (chassisd) detached the interface devices (ifdevs) for the PIC in the indicated slot of the indicated FPC.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## CHASSISD\_IFDEV\_DETACH\_PSEUDO

<b>System Log Message</b>	CHASSISD_IFDEV_DETACH_PSEUDO: ifdev_detach(pseudo devices: porttype <i>port-type-string</i> , sdev= <i>sdev-number</i> , edev= <i>edev-number</i> )
<b>Description</b>	The chassis process (chassisd) detached the interface devices (ifdevs) for the indicated pseudodevices.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## CHASSISD\_IFDEV\_DETACH\_TLV\_ERROR

<b>System Log Message</b>	CHASSISD_IFDEV_DETACH_TLV_ERROR: ifdev_detach: rtllib_ifdm_change_tlvs failed for slot <i>fpc-slot-number</i> dev idx <i>device-index-number error-string</i>
<b>Description</b>	The chassis process (chassisd) asked the kernel to remove the indicated interface from the kernel interface table. The request failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## CHASSISD\_IFDEV\_GET\_BY\_INDEX\_FAIL

<b>System Log Message</b>	CHASSISD_IFDEV_GET_BY_INDEX_FAIL: <i>function-name-str</i> : rtllib_ifdm_get_by_index failed: <i>error-number</i> - <i>error-string</i>
<b>Description</b>	The chassis process (chassisd) could not obtain information about an interface device.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## CHASSISD\_IPC\_MSG\_QFULL\_ERROR

<b>System Log Message</b>	CHASSISD_IPC_MSG_QFULL_ERROR: Dropping message from connection queue: type = <i>message-type-number</i> ; subtype = <i>message-subtype-number</i>
<b>Description</b>	The chassis process (chassisd) had to discard a message because the queue of messages waiting for a connection was already full.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error

## CHASSISD\_IPC\_UNEXPECTED\_RECV

<b>System Log Message</b>	CHASSISD_IPC_UNEXPECTED_RECV: Received unexpected message from <i>connection-id-string</i> : type = <i>message-type-number</i> ; subtype = <i>message-subtype-number</i>
<b>Description</b>	The chassis process (chassisd) received an unexpected message from a peer connection.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## CHASSISD\_IPC\_WRITE\_ERR\_NO\_PIPE

<b>System Log Message</b>	CHASSISD_IPC_WRITE_ERR_NO_PIPE: FRU has no connection pipe <i>function-name-string fru-name-string</i>
<b>Description</b>	The chassis process (chassisd) could not send a message to the indicated FRU because an IPC pipe to the FRU no longer existed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning

## CHASSISD\_IPC\_WRITE\_ERR\_NULL\_ARGS

<b>System Log Message</b>	CHASSISD_IPC_WRITE_ERR_NULL_ARGS: FRU has no connection arguments <i>function-name-string fru-name-string</i>
<b>Description</b>	The chassis process (chassisd) could not send a message to the indicated FRU because a required parameter had a null value.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning

## CHASSISD\_MAC\_ADDRESS\_ERROR

**System Log Message** CHASSISD\_MAC\_ADDRESS\_ERROR:  
chassisd MAC address allocation error

**Description** The chassis process (chassisd) could not obtain a MAC address for an interface because of an internal error.

**Type** Error: An error occurred

**Severity** error

## CHASSISD\_MAC\_DEFAULT

**System Log Message** CHASSISD\_MAC\_DEFAULT:  
Using default MAC address base

**Description** The chassis process (chassisd) used the default base MAC address.

**Type** Event: This message reports an event, not an error

**Severity** info

## CHASSISD\_MBUS\_ERROR

**System Log Message** CHASSISD\_MBUS\_ERROR:  
*fru-name-string fru-slot-number*: management bus failed sanity test

**Description** Sanity tests on the indicated FRU's management bus failed.

**Type** Error: An error occurred

**Severity** error

## CHASSISD\_PARSE\_COMPLETE

**System Log Message** CHASSISD\_PARSE\_COMPLETE:  
Using new configuration

**Description** The chassis process (chassisd) successfully parsed its configuration file.

**Type** Event: This message reports an event, not an error

**Severity** info

## CHASSISD\_PARSE\_ERROR

<b>System Log Message</b>	CHASSISD_PARSE_ERROR: <i>filename-string: number-of-errors-number</i> parse errors
<b>Description</b>	The chassis process (chassisd) could not parse the indicated configuration file because of errors.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## CHASSISD\_PARSE\_INIT

<b>System Log Message</b>	CHASSISD_PARSE_INIT: Parsing configuration file ' <i>filename-string</i> '
<b>Description</b>	The chassis process (chassisd) began to parse the indicated configuration file.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## CHASSISD\_PIDFILE\_OPEN

<b>System Log Message</b>	CHASSISD_PIDFILE_OPEN: Unable to open PID file ' <i>pid-filename</i> ': <i>errno error-number</i>
<b>Description</b>	The chassis process (chassisd) could not open the file where it stores its process ID (PID).
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The chassisd process might have detected that another chassisd process was running and tried to read the file so that it could use the PID recorded there when terminating the other process.

## CHASSISD\_PIPE\_WRITE\_ERROR

<b>System Log Message</b>	CHASSISD_PIPE_WRITE_ERROR: Pipe error: <i>error-string</i>
<b>Description</b>	The chassis process (chassisd) experienced a fatal error while writing to a pipe.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	There was no reader for the pipe.

## CHASSISD\_POWER\_CHECK

<b>System Log Message</b>	CHASSISD_POWER_CHECK: <i>fru-name-string fru-slot-number</i> not powering up
<b>Description</b>	The chassis process (chassisd) could not power up the indicated FRU, because the FRU did not respond.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## CHASSISD\_RECONNECT\_SUCCESSFUL

<b>System Log Message</b>	CHASSISD_RECONNECT_SUCCESSFUL: Successfully reconnected on soft restart
<b>Description</b>	The chassis process (chassisd) successfully reconnected with each Packet Forwarding Engine after a soft restart.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## CHASSISD\_RELEASE\_MASTERSHIP

<b>System Log Message</b>	CHASSISD_RELEASE_MASTERSHIP: Release mastership notification
<b>Description</b>	The chassis process (chassisd) received a request to release mastership on the current Routing Engine.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## CHASSISD\_RE\_INIT\_INVALID\_RE\_SLOT

<b>System Log Message</b>	CHASSISD_RE_INIT_INVALID_RE_SLOT: <i>re_init: re re-slot-number</i> ; out of range
<b>Description</b>	The chassis process (chassisd) could not initialize a Routing Engine because the slot number specified for it was invalid.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## CHASSISD\_ROOT\_MOUNT\_ERROR

<b>System Log Message</b>	CHASSISD_ROOT_MOUNT_ERROR: Unable to determine the mount point for root directory: <i>error-string</i>
<b>Description</b>	The chassis process (chassisd) could not determine the mount point for the root file system.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## CHASSISD\_RTS\_SEQ\_ERROR

<b>System Log Message</b>	CHASSISD_RTS_SEQ_ERROR: ifmsg sequence gap <i>expected-sequence-number</i> - - <i>received-sequence-number</i>
<b>Description</b>	The chassis process (chassisd) received a routing socket message out of order.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning
<b>Cause</b>	A routing socket message was lost because of excessive load or lack of memory.

## CHASSISD\_SERIAL\_ID

<b>System Log Message</b>	CHASSISD_SERIAL_ID: Serial ID read error: <i>error-number</i> - - <i>error-string</i>
<b>Description</b>	The chassis process (chassisd) could not obtain the Routing Engines's serial ID number from the kernel because of the indicated error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning

## CHASSISD\_SMB\_ERROR

<b>System Log Message</b>	CHASSISD_SMB_ERROR: smb_read: fpga download not complete: val <i>download-status-number</i> ; <i>chassisd-action-string</i>
<b>Description</b>	The chassis process (chassisd) received an SMB download status message that did not indicate success.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## CHASSISD\_TERM\_SIGNAL

<b>System Log Message</b>	CHASSISD_TERM_SIGNAL: Got SIGTERM request, shutting down
<b>Description</b>	The chassis process (chassisd) received the SIGTERM signal, indicating that it should terminate. It will exit after cleanup, but might restart automatically.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## CHASSISD\_TRACE\_PIC\_OFFLINE

<b>System Log Message</b>	CHASSISD_TRACE_PIC_OFFLINE: Taking PIC offline - - FPC slot <i>fpc-slot-number</i> , PIC slot <i>pic-slot-number</i> reason <i>reason-string</i>
<b>Description</b>	The chassis process (chassisd) took the indicated PIC offline for the indicated reason.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## CHASSISD\_UNEXPECTED\_EXIT

<b>System Log Message</b>	CHASSISD_UNEXPECTED_EXIT: evMainLoop returned <i>return-code-number</i> : <i>error-number</i>
<b>Description</b>	The main loop of the chassis process (chassisd) exited unexpectedly.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An error in the main loop might have occurred.

## CHASSISD\_UNSUPPORTED\_MODEL

<b>System Log Message</b>	CHASSISD_UNSUPPORTED_MODEL: Model <i>model-number</i> unsupported with this version of chassisd
<b>Description</b>	The chassis process (chassisd) does not support the model of chassis on which it is running.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning
<b>Action</b>	Contact your technical support representative.

# Chapter 5

## DCD System Log Messages

This chapter describes messages generated by the interface process (dcd), which controls the physical interface devices and logical interfaces in the router.

- DCD\_AS\_ROOT on page 45
- DCD\_FILTER\_LIB\_ERROR on page 46
- DCD\_MALLOC\_FAILED\_INIT on page 46
- DCD\_PARSE\_CONFIG\_ERROR on page 46
- DCD\_PARSE\_EMERGENCY on page 47
- DCD\_PARSE\_FILTER\_EMERGENCY on page 47
- DCD\_PARSE\_MINI\_EMERGENCY on page 47
- DCD\_PARSE\_POLICER\_FILE\_EMERGENCY on page 48
- DCD\_PARSE\_STATE\_EMERGENCY on page 48
- DCD\_POLICER\_PARSE\_EMERGENCY on page 48

### DCD\_AS\_ROOT

<b>System Log Message</b>	DCD_AS_ROOT: Must be run as root
<b>Description</b>	The user who attempted to start the interface process (dcd) was not the root user.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## DCD\_FILTER\_LIB\_ERROR

<b>System Log Message</b>	DCD_FILTER_LIB_ERROR: Filter library initialization failed
<b>Description</b>	The interface process (dcd) could not initialize its access to the filter library.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## DCD\_MALLOC\_FAILED\_INIT

<b>System Log Message</b>	DCD_MALLOC_FAILED_INIT: Memory allocation failed during initialization for configuration load
<b>Description</b>	The interface process (dcd) could not allocate memory, which it must do dynamically.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	A software bug caused a memory leak, or the router had insufficient memory.
<b>Action</b>	Contact your technical support representative.

## DCD\_PARSE\_CONFIG\_ERROR

<b>System Log Message</b>	DCD_PARSE_CONFIG_ERROR: Parsing of configuration file failed
<b>Description</b>	The interface process (dcd) obtains its configuration from the [edit interfaces] hierarchy in the configuration database. It could not parse the configuration database because of improper syntax or because a parameter value was out of range.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Action</b>	Verify that the [edit interfaces] configuration hierarchy is correct.

## DCD\_PARSE\_EMERGENCY

<b>System Log Message</b>	DCD_PARSE_EMERGENCY: dcd_config: Got errors while parsing configuration file
<b>Description</b>	The interface process (dcd) encountered an unhandled internal state while parsing the configuration database.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	There might be a bug in the dcd process' parser.
<b>Action</b>	Contact your technical support representative.

## DCD\_PARSE\_FILTER\_EMERGENCY

<b>System Log Message</b>	DCD_PARSE_FILTER_EMERGENCY: dcd_config: Got errors while parsing filter index file
<b>Description</b>	The interface process (dcd) encountered an unhandled internal state while parsing the filter index file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	There might be a bug in the dcd process' parser.
<b>Action</b>	Contact your technical support representative.

## DCD\_PARSE\_MINI\_EMERGENCY

<b>System Log Message</b>	DCD_PARSE_MINI_EMERGENCY: dcd_mini_config: Got errors while parsing configuration overlay
<b>Description</b>	The interface process (dcd) encountered an unhandled internal state during interface parsing.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	There might be a bug in the dcd process' parser.
<b>Action</b>	Contact your technical support representative.

## DCD\_PARSE\_POLICER\_FILE\_EMERGENCY

<b>System Log Message</b>	DCD_PARSE_POLICER_FILE_EMERGENCY: dcd_config: Got errors while parsing policer file
<b>Description</b>	The interface process (dcd) encountered an unhandled internal state while parsing the policer configuration file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	There might be a bug in the dcd process' parser.
<b>Action</b>	Contact your technical support representative.

## DCD\_PARSE\_STATE\_EMERGENCY

<b>System Log Message</b>	DCD_PARSE_STATE_EMERGENCY: An unhandled state was encountered during interface parsing
<b>Description</b>	The interface process (dcd) encountered an unhandled internal state during interface parsing.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	emergency
<b>Cause</b>	There might be a bug in the dcd process' parser.
<b>Action</b>	Contact your technical support representative.

## DCD\_POLICER\_PARSE\_EMERGENCY

<b>System Log Message</b>	DCD_POLICER_PARSE_EMERGENCY: dcd_config: Got errors while parsing policer indexfile
<b>Description</b>	The interface process (dcd) encountered an unhandled internal state while parsing the policer configuration file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	There might be a bug in the dcd process' parser.
<b>Action</b>	Contact your technical support representative.

# Chapter 6

## FSAD System Log Messages

This chapter describes messages generated by the File System Access process (fsad), which obtains boot-time information used by J20 gateway GPRS support node control and user (GGSN-C and GGSN-U) Physical Interface Cards (PICs) as they initialize.

- FSAD\_CHANGE\_FILE\_OWNER on page 50
- FSAD\_CONFIG\_ERROR on page 50
- FSAD\_CONNTIMEDOUT on page 50
- FSAD\_FAILED on page 51
- FSAD\_FETCHTIMEDOUT on page 51
- FSAD\_FILE\_FAILED on page 51
- FSAD\_FILE\_STAT on page 52
- FSAD\_FILE\_SYNC on page 52
- FSAD\_MAXCONN on page 52
- FSAD\_MEMORYALLOC\_FAILED on page 52
- FSAD\_NOT\_ROOT on page 53
- FSAD\_PARENT\_DIRECTORY on page 53
- FSAD\_PATH\_IS\_DIRECTORY on page 53
- FSAD\_PATH\_IS\_SPECIAL on page 53
- FSAD\_RECVERROR on page 54
- FSAD\_TERMINATED\_CONNECTION on page 54
- FSAD\_TERMINATING\_SIGNAL on page 54
- FSAD\_TRACEOPEN\_FAILED on page 54
- FSAD\_USAGE on page 55

## FSAD\_CHANGE\_FILE\_OWNER

<b>System Log Message</b>	FSAD_CHANGE_FILE_OWNER: Unable to change owner of file ' <i>file-pathname</i> ' to user <i>username</i> : <i>reason</i>
<b>Description</b>	The File System Access process (fsad) could not change the ownership of the indicated file, because the file was open for writing.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## FSAD\_CONFIG\_ERROR

<b>System Log Message</b>	FSAD_CONFIG_ERROR: Reason: <i>reason</i>
<b>Description</b>	The configuration file for the File System Access process (fsad) might contain an error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## FSAD\_CONNTIMEDOUT

<b>System Log Message</b>	FSAD_CONNTIMEDOUT: Connection timed out to the client ( <i>conntype</i> , <i>ipaddr</i> ) having request type <i>rport</i>
<b>Description</b>	The File System Access process (fsad) flushed all state information about the timed-out connection.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error

## FSAD\_FAILED

<b>System Log Message</b>	FSAD_FAILED: In <i>enclfn</i> : <i>fn</i> () returned: <i>reason</i>
<b>Description</b>	An internal error occurred inside a function in the File System Access process (fsad).
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## FSAD\_FETCHTIMEDOUT

<b>System Log Message</b>	FSAD_FETCHTIMEDOUT: Fetch to server <i>server</i> for file ' <i>file</i> ' timed out
<b>Description</b>	The File System Access process (fsad) stopped trying a fetch operation on the indicated file.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error

## FSAD\_FILE\_FAILED

<b>System Log Message</b>	FSAD_FILE_FAILED: <i>enclfn</i> : <i>fn</i> failed for file ' <i>file</i> ' with error message <i>reason</i>
<b>Description</b>	An internal error occurred while the File System Access process (fsad) was performing a file operation.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## FSAD\_FILE\_STAT

<b>System Log Message</b>	FSAD_FILE_STAT: stat() failed for file pathname <i>file-pathname</i> : <i>reason</i>
<b>Description</b>	The File System Access process (fsad) received a request for a nonexistent file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The file path does not exist.
<b>Action</b>	Make sure the path specified in the request is valid.

## FSAD\_FILE\_SYNC

<b>System Log Message</b>	FSAD_FILE_SYNC: Unable to sync file ' <i>filename</i> ': <i>reason</i>
<b>Description</b>	As a part of closing a file, FSAD executes the sync() system call to ensure that the file changes are committed to disk. This operation failed for the specified file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## FSAD\_MAXCONN

<b>System Log Message</b>	FSAD_MAXCONN: Upper limit reached in fsad for handling connections
<b>Description</b>	The File System Access process (fsad) stopped accepting new connections because it reached an internal limit for handling connections.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error

## FSAD\_MEMORYALLOC\_FAILED

<b>System Log Message</b>	FSAD_MEMORYALLOC_FAILED: <i>alloc-function</i> failed in the function <i>caller-function</i> ( <i>caller-line</i> )
<b>Description</b>	The File System Access process (fsad) could not allocate memory. The system might be running low on memory.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## FSAD\_NOT\_ROOT

<b>System Log Message</b>	FSAD_NOT_ROOT: Must be run as root
<b>Description</b>	The user who attempted to start the File System Access process (fsad) was not the root user.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## FSAD\_PARENT\_DIRECTORY

<b>System Log Message</b>	FSAD_PARENT_DIRECTORY: <i>directory: invalid directory: message</i>
<b>Description</b>	The parent directory specified in the request for a file is not valid.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Action</b>	Make sure the path specified in the request is valid.

## FSAD\_PATH\_IS\_DIRECTORY

<b>System Log Message</b>	FSAD_PATH_IS_DIRECTORY: File path cannot be a directory ( <i>file-pathname</i> )
<b>Description</b>	The File System Access process (fsad) received a request on a directory instead of a regular file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The file path points to a directory.
<b>Action</b>	Make sure the path points to a regular file.

## FSAD\_PATH\_IS\_SPECIAL

<b>System Log Message</b>	FSAD_PATH_IS_SPECIAL: Not a regular file ( <i>file-pathname</i> )
<b>Description</b>	The request points to a nonregular file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The request does not contain an appropriate path.
<b>Action</b>	Make sure the path points to a regular file.

## FSAD\_RECERROR

<b>System Log Message</b>	FSAD_RECERROR: fsad got error <i>message</i> from client having request type <i>conntype</i> at ( <i>ipaddr</i> ; <i>rport</i> )
<b>Description</b>	The File System Access process (fsad) received a packet with the indicated error message from the other end of a connection.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## FSAD\_TERMINATED\_CONNECTION

<b>System Log Message</b>	FSAD_TERMINATED_CONNECTION: Open file ' <i>filename</i> ' closed due to process shutdown
<b>Description</b>	The File System Access process (fsad) terminated a connection, stored the connection's (unwritten) data to disk and purged it from its data structures.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## FSAD\_TERMINATING\_SIGNAL

<b>System Log Message</b>	FSAD_TERMINATING_SIGNAL: Received terminating signal <i>signal-name</i> , preparing to clean up
<b>Description</b>	The File System Access process (fsad) will clean up and do sync in response to the terminating signal it received.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## FSAD\_TRACEOPEN\_FAILED

<b>System Log Message</b>	FSAD_TRACEOPEN_FAILED: Open operation on trace file ' <i>file-pathname</i> ' returned <i>error</i>
<b>Description</b>	The File System Access process (fsad) failed to open the indicated trace file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

# FSAD\_USAGE

<b>System Log Message</b>	FSAD_USAGE: Incorrect usage, <i>usage</i>
<b>Description</b>	The File System Access process (fsad) displayed its usage statement.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error
<b>Cause</b>	The fsad process was not invoked with correct command-line arguments.
<b>Action</b>	Check the usage and invoke the fsad process with the correct command-line arguments.



# Chapter 7

## GGSN System Log Messages

This chapter describes messages generated by the Services Physical Interface Cards (PICs) process (serviced), which provides the user interface for management and configuration of J20 gateway GPRS support node control (GGSN-C) PICs.

- GGSN\_ALARM\_TRAP\_FAILED on page 57
- GGSN\_ALARM\_TRAP\_SEND on page 57
- GGSN\_TRAP\_SEND on page 58

### GGSN\_ALARM\_TRAP\_FAILED

<b>System Log Message</b>	GGSN_ALARM_TRAP_FAILED: <i>function: trap_request_send() failed: reason</i>
<b>Description</b>	An error occurred when the Services PICs process (serviced) attempted to send a trap.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.

### GGSN\_ALARM\_TRAP\_SEND

<b>System Log Message</b>	GGSN_ALARM_TRAP_SEND: <i>function: alarm failed: reason</i>
<b>Description</b>	An alarm trap to be relayed by the Services PICs process (serviced) failed to initialize.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## GGSN\_TRAP\_SEND

<b>System Log Message</b>	GGSN_TRAP_SEND: Unknown trap request type <i>trap-type</i>
---------------------------	---

**Description** The system sent a GGSN trap of an unrecognized type.

**Type** Error: An error occurred

**Severity**    notice

**Cause** An internal software failure occurred.

**Action** Contact your technical support representative.

# Chapter 8

## JADE System Log Messages

This chapter describes messages generated by the JUNOScript authentication process (jade), which authenticates and checks authorization of client applications using the JUNOScript application programming interface (API).

- JADE\_AUTH\_ERROR on page 59
- JADE\_EXEC\_ERROR on page 59
- JADE\_NO\_LOCAL\_USER on page 60
- JADE\_PAM\_ERROR on page 60
- JADE\_PAM\_NO\_LOCAL\_USER on page 60

### JADE\_AUTH\_ERROR

<b>System Log Message</b>	JADE_AUTH_ERROR: Authorization failed: <i>error-message</i>
<b>Description</b>	The username or password supplied by the client was incorrect.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

### JADE\_EXEC\_ERROR

<b>System Log Message</b>	JADE_EXEC_ERROR: CLI xml-mode exec error: <i>error-message</i>
<b>Description</b>	The JUNOScript authentication process (jade) could not start because of an internal error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## JADE\_NO\_LOCAL\_USER

<b>System Log Message</b>	JADE_NO_LOCAL_USER: Local user <i>error-message</i> does not exist
<b>Description</b>	The JUNOScript authentication process (jade) could not find an entry for the indicated username in its database. The username was provided either by a client or was referred to by the RADIUS or TACACS+ server.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## JADE\_PAM\_ERROR

<b>System Log Message</b>	JADE_PAM_ERROR: PAM error: <i>error-message</i>
<b>Description</b>	The JUNOScript authentication process (jade) could not process the credentials supplied by the client.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## JADE\_PAM\_NO\_LOCAL\_USER

<b>System Log Message</b>	JADE_PAM_NO_LOCAL_USER: Unable to get local username from PAM: <i>error-message</i>
<b>Description</b>	The JUNOScript authentication process (jade) could not obtain a local username while processing the credentials supplied by the client.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

# Chapter 9

## LIBJNX System Log Messages

This chapter describes messages generated by processes that call routines in the libjuniper library, which includes routines for creating and managing child processes, parsing machine and interface addresses, tracing, file I/O, and other functions.

- LIBJNX\_EXEC\_EXITED on page 61
- LIBJNX\_EXEC\_FAILED on page 62
- LIBJNX\_EXEC\_PIPE on page 62
- LIBJNX\_EXEC\_SINGALED on page 62
- LIBJNX\_EXEC\_WEXIT on page 63
- LIBJNX\_FILE\_COPY\_FAILED on page 63
- LIBJNX\_PRIV\_LOWER\_FAILED on page 63
- LIBJNX\_PRIV\_RAISE\_FAILED on page 64
- LIBJNX\_ROTATE\_COMPRESS\_EXEC\_FAILED on page 64

### LIBJNX\_EXEC\_EXITED

<b>System Log Message</b>	LIBJNX_EXEC_EXITED: Command stopped: PID <i>process-id</i> , signal= ' <i>exit-status</i> ' <i>core-dump-status</i> , command ' <i>command</i> '
<b>Description</b>	A JUNOS process created a child process to execute the indicated command for it. The child process stopped unexpectedly.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	notice
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## LIBJNX\_EXEC\_FAILED

<b>System Log Message</b>	LIBJNX_EXEC_FAILED: Child exec failed for command ' <i>command</i> ': <i>error-message</i>
<b>Description</b>	A JUNOS process called the exec() system call while creating a child process to execute the indicated command for it. The system call failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## LIBJNX\_EXEC\_PIPE

<b>System Log Message</b>	LIBJNX_EXEC_PIPE: Unable to create pipes for command ' <i>command</i> ': <i>error-message</i>
<b>Description</b>	A JUNOS process created a child process to execute the indicated command for it. Its attempt to create pipes for communication with the child failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## LIBJNX\_EXEC\_SIGNALED

<b>System Log Message</b>	LIBJNX_EXEC_SIGNALED: Command received signal: PID <i>process-id</i> , signal <i>signal-name</i> core-dump-status, command ' <i>command</i> '
<b>Description</b>	A JUNOS process created a child process to execute the indicated command for it. The child process received the indicated signal and exited.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## LIBJNX\_EXEC\_WEXIT

<b>System Log Message</b>	LIBJNX_EXEC_WEXIT: Command exited: PID <i>process-id</i> , status <i>exit-status</i> core-dump-status, command ' <i>command</i> '
<b>Description</b>	A JUNOS process created a child process to execute the indicated command for it. The child process exited abnormally with the indicated exit code.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	notice
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## LIBJNX\_FILE\_COPY\_FAILED

<b>System Log Message</b>	LIBJNX_FILE_COPY_FAILED: copy_file_to_transfer_dir failed to copy from <i>source</i> to <i>destination</i>
<b>Description</b>	A JUNOS process could not copy the indicated source file to the indicated destination name or location.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## LIBJNX\_PRIV\_LOWER\_FAILED

<b>System Log Message</b>	LIBJNX_PRIV_LOWER_FAILED: Unable to lower privilege level: <i>error-message</i>
<b>Description</b>	A JUNOS process attempted to revert its effective user ID to the original user. The attempt failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## LIBJNX\_PRIV\_RAISE\_FAILED

**System Log Message** LIBJNX\_PRIV\_RAISE\_FAILED:  
Unable to raise privilege level: *error-message*

**Description** A JUNOS process attempted to set its effective user ID to the root user. The attempt failed.

**Type** Error: An error occurred

**Severity** error

**Cause** An internal software failure occurred.

**Action** Contact your technical support representative.

## LIBJNX\_ROTATE\_COMPRESS\_EXEC\_FAILED

**System Log Message** LIBJNX\_ROTATE\_COMPRESS\_EXEC\_FAILED:  
*compress-path compress-prog -f compress-file: error-message*

**Description** A JUNOS process could not compress an old log file.

**Type** Error: An error occurred

**Severity** info

**Cause** An internal software failure occurred.

**Action** Contact your technical support representative.

# Chapter 10

## LIBSERVICED System Log Messages

This chapter describes messages generated by the Services Physical Interface Cards (PICs) process (serviced), which provides the user interface for management and configuration of J20 gateway GPRS support node control (GGSN-C) PICs.

- LIBSERVICED\_CLIENT\_CONNECTION on page 65
- LIBSERVICED\_OUTBOUND\_REQUEST on page 65
- LIBSERVICED\_SNMP\_LOST\_CONNECTION on page 66
- LIBSERVICED\_SOCKET\_BIND on page 66
- LIBSERVICED\_SOCKET\_PRIVATIZE on page 66

### LIBSERVICED\_CLIENT\_CONNECTION

<b>System Log Message</b>	LIBSERVICED_CLIENT_CONNECTION: Client connection error: <i>reason</i>
<b>Description</b>	An attempt to establish a client connection failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

### LIBSERVICED\_OUTBOUND\_REQUEST

<b>System Log Message</b>	LIBSERVICED_OUTBOUND_REQUEST: Outbound request failed for command [ <i>request-string</i> ]: <i>reason</i>
<b>Description</b>	There was an error while attempting to execute a command on a remote client.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## LIBSERVICED\_SNMP\_LOST\_CONNECTION

<b>System Log Message</b>	LIBSERVICED_SNMP_LOST_CONNECTION: Connection closed while receiving from client <i>client-number</i>
<b>Description</b>	A client connection was abruptly closed by the remote client while reading a message.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## LIBSERVICED\_SOCKET\_BIND

<b>System Log Message</b>	LIBSERVICED_SOCKET_BIND: <i>library-function</i> : unable to bind socket <i>socket-descriptor</i> : <i>reason</i>
<b>Description</b>	An attempt to bind a server socket for receiving client requests failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## LIBSERVICED\_SOCKET\_PRIVATIZE

<b>System Log Message</b>	LIBSERVICED_SOCKET_PRIVATIZE: Unable to attach socket <i>socket-descriptor</i> to management routing instance: <i>reason</i>
<b>Description</b>	An attempt to attach a socket to the management routing instance for communication between the Routing Engine and GGSN-C PICs failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

# Chapter 11

## MIB2D System Log Messages

This chapter describes messages generated by the Management Information Base II (MIB II) process (mib2d), which services requests for information gathered and reported by the Simple Network Management Protocol (SNMP).

- MIB2D\_ATM\_ERROR on page 67
- MIB2D\_CONFIG\_CHECK\_FAILED on page 68
- MIB2D\_FILE\_OPEN\_FAILURE on page 68
- MIB2D\_IFD\_IFINDEX\_FAILURE on page 68
- MIB2D\_IFL\_IFINDEX\_FAILURE on page 69
- MIB2D\_INIT\_FAILURE on page 69
- MIB2D\_KVM\_FAILURE on page 69
- MIB2D\_RTSLIB\_READ\_FAILURE on page 70
- MIB2D\_RTSLIB\_SEQ\_MISMATCH on page 70
- MIB2D\_SYSCTL\_FAILURE on page 70
- MIB2D\_TRAP\_HEADER\_FAILURE on page 71
- MIB2D\_TRAP\_SEND\_FAILURE on page 71

### MIB2D\_ATM\_ERROR

<b>System Log Message</b>	MIB2D_ATM_ERROR: <i>function-name: error-message</i>
<b>Description</b>	The MIB II process (mib2d) could not process ATM-related information.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## MIB2D\_CONFIG\_CHECK\_FAILED

<b>System Log Message</b>	MIB2D_CONFIG_CHECK_FAILED: <i>function-name</i> : configuration database has errors
<b>Description</b>	The configuration checking phase of a 'commit' operation failed during processing of the configuration for the MIB II process (mib2d).
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The configuration was invalid.
<b>Action</b>	Correct the invalid portion of the configuration as described in the error message on the console.

## MIB2D\_FILE\_OPEN\_FAILURE

<b>System Log Message</b>	MIB2D_FILE_OPEN_FAILURE: Unable to open file ' <i>filename</i> ': <i>error-message</i>
<b>Description</b>	The MIB II process (mib2d) could not open the indicated file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## MIB2D\_IFD\_IFINDEX\_FAILURE

<b>System Log Message</b>	MIB2D_IFD_IFINDEX_FAILURE: SNMP index assigned to <i>ifd-name</i> changed from <i>old-snmp-ifindex</i> to <i>new-snmp-ifindex</i>
<b>Description</b>	The SNMP ifIndex assigned to the indicated existing interface changed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## MIB2D\_IFL\_IFINDEX\_FAILURE

<b>System Log Message</b>	MIB2D_IFL_IFINDEX_FAILURE: SNMP index assigned to <i>ifd-name.ifl-subunit</i> changed from <i>old-snmp-ifindex</i> to <i>new-snmp-ifindex</i>
<b>Description</b>	The SNMP ifIndex assigned to the indicated existing interface changed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## MIB2D\_INIT\_FAILURE

<b>System Log Message</b>	MIB2D_INIT_FAILURE: mib2d initialization failure: <i>error-message (extended-error)</i>
<b>Description</b>	The MIB II process (mib2d) failed to initialize.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## MIB2D\_KVM\_FAILURE

<b>System Log Message</b>	MIB2D_KVM_FAILURE: <i>function-name: kvm-error: error-message</i>
<b>Description</b>	A call to the indicated function in the kernel virtual memory library failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## MIB2D\_RTSLIB\_READ\_FAILURE

<b>System Log Message</b>	MIB2D_RTSLIB_READ_FAILURE: <i>function-name: failed in operation-type object-type: index (error-message)</i>
<b>Description</b>	A call to the indicated function in the routing socket library failed during the indicated operation on the indicated object.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## MIB2D\_RTSLIB\_SEQ\_MISMATCH

<b>System Log Message</b>	MIB2D_RTSLIB_SEQ_MISMATCH: <i>function-name: sequence mismatch (expected-value, received-value), resyncing</i>
<b>Description</b>	The indicated function in the routing socket library detected a sequence number mismatch. The MIB II process (mib2d) will resynchronize its data with the JUNOS kernel.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## MIB2D\_SYSCTL\_FAILURE

<b>System Log Message</b>	MIB2D_SYSCTL_FAILURE: <i>function-name: sysctl sysctl-error failed: error-message</i>
<b>Description</b>	A request to the JUNOS kernel for system data failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## MIB2D\_TRAP\_HEADER\_FAILURE

<b>System Log Message</b>	MIB2D_TRAP_HEADER_FAILURE: <i>function-name: trap_request_header failed</i>
<b>Description</b>	The MIB II process (mib2d) could not allocate a trap header.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The Routing Engine is low on resources.
<b>Action</b>	Contact your technical support representative.

## MIB2D\_TRAP\_SEND\_FAILURE

<b>System Log Message</b>	MIB2D_TRAP_SEND_FAILURE: <i>function-name: trap_request_send; error-message</i>
<b>Description</b>	The MIB II process (mib2d) could not send a trap header.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

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# Chapter 12

## NASD System Log Messages

This chapter describes messages generated by the Network Access Server process (nasd), which authenticates peers at the interface level.

- NASD\_AUTHENTICATION\_CREATE\_FAILED on page 74
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## NASD\_AUTHENTICATION\_CREATE\_FAILED

<b>System Log Message</b>	NASD_AUTHENTICATION_CREATE_FAILED: Unable to allocate authentication handle: <i>system-error</i>
<b>Description</b>	The Network Access Server process (nasd) could not allocate an authentication object.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_CHAP\_AUTHENTICATION\_IN\_PROGRESS

<b>System Log Message</b>	NASD_CHAP_AUTHENTICATION_IN_PROGRESS: <i>interface-name</i> : received <i>operation-name(message-identifier)</i> , authentication already in progress
<b>Description</b>	The Network Access Server process (nasd) received another CHAP Response from a peer while authenticating a previous CHAP Response sent by that peer. The peer is resending CHAP Responses faster than nasd can process them.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_CHAP\_GETHOSTNAME\_FAILED

<b>System Log Message</b>	NASD_CHAP_GETHOSTNAME_FAILED: <i>interface-name</i> : unable to obtain hostname for outgoing CHAP message: <i>system-error</i>
<b>Description</b>	The Network Access Server process (nasd) could not obtain the hostname needed to fill in the 'Name' field in an outgoing CHAP packet.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_CHAP\_INVALID\_CHAP\_IDENTIFIER

<b>System Log Message</b>	NASD_CHAP_INVALID_CHAP_IDENTIFIER: <i>interface-name</i> : received <i>operation-name(message-identifier)</i> , expected CHAP ID: <i>expected-identifier</i>
<b>Description</b>	The identifier in a CHAP message received from a peer did not match the expected value.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	info

## NASD\_CHAP\_INVALID\_OPCODE

<b>System Log Message</b>	NASD_CHAP_INVALID_OPCODE: <i>interface-name</i> : invalid opcode received <i>operation-name(operation-code)</i> , CHAP ID: <i>message-identifier</i>
<b>Description</b>	A CHAP message from a peer included the indicated operation code, which is invalid.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_CHAP\_LOCAL\_NAME\_UNAVAILABLE

<b>System Log Message</b>	NASD_CHAP_LOCAL_NAME_UNAVAILABLE: Unable to determine value for 'Name' in outgoing CHAP packet
<b>Description</b>	The Network Access Server process (nasd) could not determine the value needed to fill in the 'Name' field in an outgoing CHAP packet, because either the local name was not specified or nasd could not determine the hostname.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_CHAP\_MESSAGE\_UNEXPECTED

<b>System Log Message</b>	NASD_CHAP_MESSAGE_UNEXPECTED: <i>interface-name</i> : received <i>operation-name(message-identifier)</i>
<b>Description</b>	The Network Access Server process (nasd) did not expect to receive a CHAP message with the indicated operation type.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	info

## NASD\_CHAP\_REPLAY\_ATTACK\_DETECTED

<b>System Log Message</b>	NASD_CHAP_REPLAY_ATTACK_DETECTED: <i>interface-name</i> : received <i>operation-name(message-identifier)</i> , this is identical to an outstanding challenge. Peer is trying to exhort response value.
<b>Description</b>	During an exchange of authentication messages, a peer responded to a challenge message from the Network Access Server process (nasd) by returning the same message. nasd did not respond to the peer, because doing so would provide the answer to the original challenge. The peer must provide the answer on its own for authentication to succeed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_CONFIG\_GET\_LAST\_MODIFIED\_FAILED

<b>System Log Message</b>	NASD_CONFIG_GET_LAST_MODIFIED_FAILED: Unable to determine last modified time of JUNOS configuration database: <i>reason: system-error</i>
<b>Description</b>	The Network Access Server process (nasd) could not determine when the JUNOS configuration database last changed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_DAEMONIZE\_FAILED

<b>System Log Message</b>	NASD_DAEMONIZE_FAILED: Aborting, unable to run in the background as a daemon: <i>error</i>
<b>Description</b>	The Network Access Server process (nasd) could not create a version of itself to run in the background as a daemon.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	emergency

## NASD\_DB\_ALLOC\_FAILURE

<b>System Log Message</b>	NASD_DB_ALLOC_FAILURE: Unable to allocate database object: <i>object-type</i> , <i>system-error</i>
<b>Description</b>	The Network Access Server process (nasd) could not allocate memory for the indicated object, which it needs to insert into its in-memory database.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_DB\_TABLE\_CREATE\_FAILURE

<b>System Log Message</b>	NASD_DB_TABLE_CREATE_FAILURE: patricia_root_init failed: <i>database-table</i> , <i>system-error</i>
<b>Description</b>	The Network Access Server process (nasd) could not create a container object in the database stored in its memory.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_DUPLICATE

<b>System Log Message</b>	NASD_DUPLICATE: Another copy of this program is running
<b>Description</b>	An attempt to start the Network Access Server process (nasd) failed because an instance of the process is already running.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_EVLIB\_CREATE\_FAILURE

<b>System Log Message</b>	NASD_EVLIB_CREATE_FAILURE: evCreate failed with: <i>error</i>
<b>Description</b>	The Network Access Server process (nasd) could not create a context used for handling all asynchronous events (such as timers and message availability).
<b>Type</b>	Error: An error occurred
<b>Severity</b>	emergency

## NASD\_EVLIB\_EXIT\_FAILURE

<b>System Log Message</b>	NASD_EVLIB_EXIT_FAILURE: evMainLoop return value: <i>return-value</i> , error: <i>error</i>
<b>Description</b>	The Network Access Server process (nasd) returned from an event loop, which it should never do.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_LOCAL\_CREATE\_FAILED

<b>System Log Message</b>	NASD_LOCAL_CREATE_FAILED: Unable to allocate LOCAL module handle: <i>system-error</i>
<b>Description</b>	The Network Access Server Process (nasd) attempted to allocate a locally configured 'password' authentication module as part of its authentication sequence. The allocation failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_NOT\_ROOT

<b>System Log Message</b>	NASD_NOT_ROOT: Must be run as root
<b>Description</b>	The user who attempted to start the Network Access Server process (nasd) was not the root user.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_PID\_FILE\_LOCK

<b>System Log Message</b>	NASD_PID_FILE_LOCK: Unable to lock PID file: <i>system-error</i>
<b>Description</b>	The Network Access Server process (nasd) attempted to lock the file that records its process ID (PID), which serves to prevent multiple instances of nasd from running simultaneously. The attempt failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_PID\_FILE\_UPDATE

<b>System Log Message</b>	NASD_PID_FILE_UPDATE: Unable to update process PID file: <i>system-error</i>
<b>Description</b>	The Network Access Server process (nasd) attempted to update the file that records its process ID (PID), which serves to prevent multiple instances of nasd from running simultaneously. The attempt failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_POST\_CONFIGURE\_EVENT\_FAILED

<b>System Log Message</b>	NASD_POST_CONFIGURE_EVENT_FAILED: evDefer failed: <i>system-error</i>
<b>Description</b>	The Network Access Server process (nasd) made a system call to a post event to reread its configuration file. The call failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	emergency

## NASD\_PPP\_READ\_FAILURE

<b>System Log Message</b>	NASD_PPP_READ_FAILURE: read() failed: <i>system-error</i>
<b>Description</b>	The Network Access Server process (nasd) could not read a PPP authentication message from the kernel socket.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_PPP\_SEND\_FAILURE

<b>System Log Message</b>	NASD_PPP_SEND_FAILURE: Unable to send message: <i>system-error</i>
<b>Description</b>	The Network Access Server process (nasd) could not send a PPP authentication message to the kernel socket.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_PPP\_SEND\_PARTIAL

<b>System Log Message</b>	NASD_PPP_SEND_PARTIAL: Unable to send all of message: <i>sent-number-bytes</i>
<b>Description</b>	The Network Access Server process (nasd) could not send all of a PPP authentication message to the kernel socket.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_PPP\_UNRECOGNIZED

<b>System Log Message</b>	NASD_PPP_UNRECOGNIZED: Unrecognized authentication protocol: <i>0xprotocol-identifier</i>
<b>Description</b>	The Network Access Server process (nasd) received a PPP authentication message with an unknown authentication protocol.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_RADIUS\_ALLOCATE\_PASSWORD\_FAILED

<b>System Log Message</b>	NASD_RADIUS_ALLOCATE_PASSWORD_FAILED: <i>alloca(password-size)</i> failed when allocating password for RADIUS: <i>system-error</i>
<b>Description</b>	The Network Access Server process (nasd) could not allocate space for a temporary CHAP RADIUS password.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_RADIUS\_CONFIG\_FAILED

<b>System Log Message</b>	NASD_RADIUS_CONFIG_FAILED: <i>rad_config</i> failed: <i>radius-system-error</i>
<b>Description</b>	The Network Access Server process (nasd) could not read the configuration file that lists all RADIUS servers.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_RADIUS\_CREATE\_FAILED

<b>System Log Message</b>	NASD_RADIUS_CREATE_FAILED: Unable to allocate RADIUS module handle: <i>system-error</i>
<b>Description</b>	The Network Access Server process (nasd) attempted to allocate a RADIUS authentication module as part of its authentication sequence. The allocation failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_RADIUS\_CREATE\_REQUEST\_FAILED

<b>System Log Message</b>	NASD_RADIUS_CREATE_REQUEST_FAILED: rad_create_request failed: <i>radius-system-error</i>
<b>Description</b>	The Network Access Server process (nasd) could not create the object it uses to send messages to the RADIUS server.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_RADIUS\_GETHOSTNAME\_FAILED

<b>System Log Message</b>	NASD_RADIUS_GETHOSTNAME_FAILED: Unable to obtain hostname for outgoing RADIUS message: <i>system-error</i>
<b>Description</b>	The Network Access Server process (nasd) could not obtain the hostname it needed to fill in the NAS_IDENTIFIER field in an outgoing RADIUS message.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_RADIUS\_MESSAGE\_UNEXPECTED

<b>System Log Message</b>	NASD_RADIUS_MESSAGE_UNEXPECTED: Unknown response from RADIUS server: <i>radius-message-code</i>
<b>Description</b>	The RADIUS authentication module received a message from the RADIUS server that it does not know how to handle.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## NASD\_RADIUS\_OPEN\_FAILED

**System Log Message** NASD\_RADIUS\_OPEN\_FAILED:  
rad\_auth\_open failed: *system-error*

**Description** The Network Access Server process (nasd) could not create a RADIUS object handle, which it uses to communicate with the RADIUS server.

**Type** Error: An error occurred

**Severity** error

## NASD\_RADIUS\_SELECT\_FAILED

**System Log Message** NASD\_RADIUS\_SELECT\_FAILED:  
evSelectFD failed: *system-error*

**Description** The Network Access Server process (nasd) uses UDP sockets to communicate with RADIUS servers. It could not add the file descriptor for this socket to the select() list.

**Type** Error: An error occurred

**Severity** error

## NASD\_RADIUS\_SET\_TIMER\_FAILED

**System Log Message** NASD\_RADIUS\_SET\_TIMER\_FAILED:  
evSetTimer failed: *system-error*

**Description** The RADIUS authentication module uses a timer for retransmission of RADIUS messages. The timer could not be activated.

**Type** Error: An error occurred

**Severity** error

## NASD\_TRACE\_FILE\_OPEN\_FAILED

**System Log Message** NASD\_TRACE\_FILE\_OPEN\_FAILED:  
trace\_file\_open() failed: *system-error*

**Description** The Network Access Server process (nasd) could not open the file in which it records log and trace messages.

**Type** Error: An error occurred

**Severity** error

NASD\_USAGE

<b>System Log Message</b>	NASD_USAGE: Usage: nasd [-N] [-v] [-d debug-level]
<b>Description</b>	The Network Access Server process (nasd) displayed the syntax statement for the 'nasd' command because the command was invoked incorrectly.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error



# Chapter 13

## PWC System Log Messages

This chapter describes messages generated by the Process Watch Controller process (pwc), which monitors J20 gateway GPRS support node control (GGSN-C) processes for failures.

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## PWC\_EXIT

<b>System Log Message</b>	PWC_EXIT: Process <i>pwc-process-id</i> exiting with status <i>pwc-exit-status</i>
<b>Description</b>	The Process Watch Controller process (pwc) exited with the indicated exit status.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## PWC\_HOLD\_RELEASE

<b>System Log Message</b>	PWC_HOLD_RELEASE: Process <i>pwc-process-id</i> released child <i>child-process-id</i> from hold-down state
<b>Description</b>	The Process Watch Controller process (pwc) released the indicated child process from the hold-down state.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## PWC\_INVALID\_RUNS\_ARGUMENT

<b>System Log Message</b>	PWC_INVALID_RUNS_ARGUMENT: <i>value</i> : allowed process runs must be $\geq 1$ , not <i>argument</i>
<b>Description</b>	The number of allowed runs specified on the command line for the Process Watch Controller process (pwc) was invalid.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## PWC\_INVALID\_TIMEOUT\_ARGUMENT

<b>System Log Message</b>	PWC_INVALID_TIMEOUT_ARGUMENT: <i>value</i> : invalid 0 or negative timeout for <i>argument</i>
<b>Description</b>	The value specified for the timeout argument on the command line for the Process Watch Controller process (pwc) was too short or a negative number.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## PWC\_KILLED\_BY\_SIGNAL

<b>System Log Message</b>	PWC_KILLED_BY_SIGNAL: pwc process <i>pwc-process-id</i> received terminating signal
<b>Description</b>	The Process Watch Controller process (pwc) process exited because it received a terminating signal.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## PWC\_KILL\_EVENT

<b>System Log Message</b>	PWC_KILL_EVENT: pwc is sending signal <i>signal-name</i> to child <i>child-pid</i>
<b>Description</b>	The Process Watch Controller process (pwc) sent a termination signal to the child process it was created to monitor.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## PWC\_KILL\_FAILED

<b>System Log Message</b>	PWC_KILL_FAILED: Unable to kill process <i>child-pid</i> : <i>error</i> ( <i>error-number</i> )
<b>Description</b>	The Process Watch Controller process (pwc) could not terminate the child process it was created to monitor.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## PWC\_KQUEUE\_ERROR

<b>System Log Message</b>	PWC_KQUEUE_ERROR: kevent failed: <i>error-message</i>
<b>Description</b>	The Process Watch Controller process (pwc) could not receive an event from the kernel queue.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	emergency

## PWC\_KQUEUE\_INIT

<b>System Log Message</b>	PWC_KQUEUE_INIT: Unable to create kqueue: <i>error-message</i>
<b>Description</b>	The Process Watch Controller process (pwc) could not initialize the kernel queue.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	emergency

## PWC\_KQUEUE\_REGISTER\_FILTER

<b>System Log Message</b>	PWC_KQUEUE_REGISTER_FILTER: Failed to register kqueue filter: <i>filter-name</i> for <i>purpose</i> : <i>error-message</i>
<b>Description</b>	The Process Watch Controller process (pwc) failed to register a kernel event queue filter event.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	emergency

## PWC\_LOCKFILE\_BAD\_FORMAT

<b>System Log Message</b>	PWC_LOCKFILE_BAD_FORMAT: PID lock file has bad format: <i>lock-file-path</i>
<b>Description</b>	The Process Watch Controller process (pwc) could not parse the indicated locked PID file because its contents were invalid.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## PWC\_LOCKFILE\_ERROR

<b>System Log Message</b>	PWC_LOCKFILE_ERROR: PID lock file had error: <i>lock-file-path: error (error-number)</i>
<b>Description</b>	The Process Watch Controller process (pwc) could not read the indicated locked PID file for a child process.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## PWC\_LOCKFILE\_MISSING

<b>System Log Message</b>	PWC_LOCKFILE_MISSING: PID lock file not found: <i>lock-file-path</i>
<b>Description</b>	The Process Watch Controller process (pwc) could not find the indicated locked PID file for a child process.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## PWC\_LOCKFILE\_NOT\_LOCKED

<b>System Log Message</b>	PWC_LOCKFILE_NOT_LOCKED: PID lock file not locked: <i>lock-file-path</i>
<b>Description</b>	The Process Watch Controller process (pwc) found that the indicated PID file for a child process was unlocked when it should be locked.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## PWC\_NO\_PROCESS

<b>System Log Message</b>	PWC_NO_PROCESS: No process specified
<b>Description</b>	The child process for the Process Watch Controller process (pwc) to monitor must be specified when the pwc process starts. No child process was specified.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## PWC\_PROCESS\_EXIT

<b>System Log Message</b>	PWC_PROCESS_EXIT: pwc process <i>pwc-process-id</i> child <i>child-process-id</i> exited with status <i>child-exit-status</i>
<b>Description</b>	The child process of the Process Watch Controller process (pwc) exited with the specified exit status.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## PWC\_PROCESS\_FORCED\_HOLD

<b>System Log Message</b>	PWC_PROCESS_FORCED_HOLD: Process <i>pwc-process-id</i> forcing hold down of child <i>child-process-id</i> until signal
<b>Description</b>	The Process Watch Controller process (pwc) received a signal directing it to hold down the indicated child process forcibly on exit due to a signal.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## PWC\_PROCESS\_HOLD

<b>System Log Message</b>	PWC_PROCESS_HOLD: Process <i>pwc-process-id</i> holding down child <i>child-process-id</i> until signal
<b>Description</b>	The Process Watch Controller process (pwc) held down the indicated child process after the child exited, preventing the child from restarting.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## PWC\_PROCESS\_HOLD\_SKIPPED

<b>System Log Message</b>	PWC_PROCESS_HOLD_SKIPPED: Process <i>pwc-process-id</i> will not down child <i>child-process-id</i> because of fast-kill option
<b>Description</b>	The 'fast-kill' option was included on the command line for the Process Watch Controller process (pwc), so the pwc process will not hold down its child process when the child exits.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## PWC\_PROCESS\_OPEN

<b>System Log Message</b>	PWC_PROCESS_OPEN: Failed to create child process with pidpopen: <i>error (error-number)</i>
<b>Description</b>	The Process Watch Controller process (pwc) exited because it could not create a child process.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	emergency

## PWC\_PROCESS\_TIMED\_HOLD

<b>System Log Message</b>	PWC_PROCESS_TIMED_HOLD: Process <i>pwc-process-id</i> holding down child <i>child-process-id</i> for <i>hold-time</i> seconds or until signal
<b>Description</b>	The Process Watch Controller process (pwc) held down the indicated exiting child process temporarily, preventing it from restarting.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## PWC\_PROCESS\_TIMEOUT

<b>System Log Message</b>	PWC_PROCESS_TIMEOUT: Child timed out while <i>process-state</i>
<b>Description</b>	The child process monitored by the Process Watch Controller process (pwc) timed out and will be terminated.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## PWC\_SIGNAL\_INIT

<b>System Log Message</b>	PWC_SIGNAL_INIT: signal( <i>signal-name</i> ) failed: <i>error (error-number)</i>
<b>Description</b>	The Process Watch Controller process (pwc) failed to initialize the indicated signal handler.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	emergency

## PWC\_SOCKET\_CONNECT

<b>System Log Message</b>	PWC_SOCKET_CONNECT: Unable to connect socket to <i>destination: error</i>
<b>Description</b>	The Process Watch Controller process (pwc) could not connect to a Routing Engine process.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## PWC\_SOCKET\_CREATE

<b>System Log Message</b>	PWC_SOCKET_CREATE: Failed to create socket: <i>error</i>
<b>Description</b>	The Process Watch Controller process (pwc) could not create a socket for communication with a Routing Engine process.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## PWC\_SOCKET\_OPTION

<b>System Log Message</b>	PWC_SOCKET_OPTION: Unable to set socket option <i>socket-option: error</i>
<b>Description</b>	The Process Watch Controller process (pwc) could not set the indicated option on a socket for communication with a Routing Engine process, so socket initialization failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## PWC\_STDOUT\_WRITE

<b>System Log Message</b>	PWC_STDOUT_WRITE: Write to stdout failed: <i>error (error-number)</i>
<b>Description</b>	The Process Watch Controller process (pwc) could not write to standard output but continued to run.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## PWC\_SYSTEM\_CALL

<b>System Log Message</b>	PWC_SYSTEM_CALL: <i>function-call: error (error-number)</i>
<b>Description</b>	The indicated system call failed with the indicated error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## PWC\_UNKNOWN\_KILL\_OPTION

<b>System Log Message</b>	PWC_UNKNOWN_KILL_OPTION: Unknown kill option [ <i>invalid-option</i> ]
<b>Description</b>	The indicated kill option included on the command line for the Process Watch Controller process (pwc) was invalid.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

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# Chapter 14

## RMOPD System Log Messages

This chapter describes messages generated by the Simple Network Management Protocol (SNMP) remote operations process (rmopd), which services SNMP requests for execution of ping and traceroute operations.

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- RMOPD\_ADDRESS\_SOURCE\_INVALID on page 96
- RMOPD\_ADDRESS\_STRING\_FAILURE on page 96
- RMOPD\_ADDRESS\_TARGET\_INVALID on page 96
- RMOPD\_DUPLICATE on page 97
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## RMOPD\_ADDRESS\_MULTICAST\_INVALID

<b>System Log Message</b>	RMOPD_ADDRESS_MULTICAST_INVALID: Multicast address is not allowed
<b>Description</b>	The SNMP client requesting a remote operation can specify the addresses of the source and target hosts for the operation. A request failed because the client specified a multicast address for either or both the source and target hosts.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RMOPD\_ADDRESS\_SOURCE\_INVALID

<b>System Log Message</b>	RMOPD_ADDRESS_SOURCE_INVALID: Source address invalid: <i>reason</i>
<b>Description</b>	The SNMP client requesting a remote operation can specify the address to use as the source host for the operation, along with the corresponding address type (such as IPv4). Either the specified address was invalid because it did not match the specified address type, or the address could not be resolved.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	notice

## RMOPD\_ADDRESS\_STRING\_FAILURE

<b>System Log Message</b>	RMOPD_ADDRESS_STRING_FAILURE: Unable to convert numeric address to string: <i>system-error</i>
<b>Description</b>	The remote SNMP operations process (rmopd) could not convert a numeric host address to its corresponding hostname text string.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RMOPD\_ADDRESS\_TARGET\_INVALID

<b>System Log Message</b>	RMOPD_ADDRESS_TARGET_INVALID: rmop_util_set_address status message: <i>reason</i>
<b>Description</b>	The SNMP client requesting a remote operation must specify the address of the target host, along with the corresponding address type (such as IPv4). Either the specified address was invalid because it did not match the specified address type, or the address could not be resolved.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RMOPD\_DUPLICATE

<b>System Log Message</b>	RMOPD_DUPLICATE: Another copy of this program is running
<b>Description</b>	The remote SNMP operations process (rmopd) could not start as requested because another instance of rmopd was already running. Only one instance can run at a time.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RMOPD\_ICMP\_ADDRESS\_TYPE\_UNSUPPORTED

<b>System Log Message</b>	RMOPD_ICMP_ADDRESS_TYPE_UNSUPPORTED: Only IPv4 source address is supported
<b>Description</b>	The SNMP client requesting a remote operation can specify the address type (such as IPv4) of the source and target hosts for the operation. The client specified an address type that is not supported.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RMOPD\_IFINDEX\_NOT\_ACTIVE

<b>System Log Message</b>	RMOPD_IFINDEX_NOT_ACTIVE: ifindex: <i>interface-index</i>
<b>Description</b>	The SNMP client requesting a remote operation can specify which interface to use as the source host address, identifying it by either its numerical index or its name. The indicated index was invalid because it represents an interface that is not active.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RMOPD\_IFINDEX\_NO\_INFO

<b>System Log Message</b>	RMOPD_IFINDEX_NO_INFO: No information for <i>interface-index</i> , message: <i>reason</i>
<b>Description</b>	The SNMP client requesting a remote operation can specify which interface to use as the source host address, identifying it by either its numerical index or its name. The SNMP remote operations process (rmopd) could not find any information about the interface with the indicated index.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RMOPD\_IFNAME\_NOT\_ACTIVE

<b>System Log Message</b>	RMOPD_IFNAME_NOT_ACTIVE: ifname: <i>interface-name</i>
<b>Description</b>	The SNMP client requesting a remote operation can specify which interface to use as the source host address, identifying it by either its numerical index or its name. The indicated name was invalid because it represents an interface that is not active.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RMOPD\_IFNAME\_NO\_INFO

<b>System Log Message</b>	RMOPD_IFNAME_NO_INFO: No information for <i>interface-name</i> , message: <i>reason</i>
<b>Description</b>	The SNMP client requesting a remote operation can specify which interface to use as the source host address, identifying it by either its numerical index or its name. The SNMP remote operations process (rmopd) could not find any information about the interface with the indicated name.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RMOPD\_NOT\_ROOT

<b>System Log Message</b>	RMOPD_NOT_ROOT: Must be run as root
<b>Description</b>	The user who attempted to start the SNMP remote operations process (rmopd) was not the root user.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RMOPD\_ROUTING\_INSTANCE\_NO\_INFO

<b>System Log Message</b>	RMOPD_ROUTING_INSTANCE_NO_INFO: No information for routing instance <i>routing-instance-name</i> : <i>system-error</i>
<b>Description</b>	The indicated routing instance does not exist, so the SNMP remote operations process (rmopd) could not retrieve information about it.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RMOPD\_TRACEROUTE\_ERROR

<b>System Log Message</b>	RMOPD_TRACEROUTE_ERROR: Message: <i>error-message</i>
<b>Description</b>	The traceroute application reported the indicated error message to the SNMP remote operations process (rmopd).
<b>Type</b>	Error: An error occurred
<b>Severity</b>	notice

## RMOPD\_USAGE

<b>System Log Message</b>	RMOPD_USAGE: Usage: rmopd [-N] [-v] [-d debug-level]
<b>Description</b>	The SNMP remote operations process (rmopd) displayed its usage statement after a user included invalid arguments on the 'rmopd' command line.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error



# Chapter 15

## RPD System Log Messages

This chapter describes messages generated by the routing protocol process (rpd), which controls the routing protocols that run on the router.

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## RPD\_ABORT

<b>System Log Message</b>	RPD_ABORT: abort <i>executable-name</i> [ <i>process-id</i> ] version <i>version</i> built by <i>builder</i> on <i>build-date</i> : <i>error-message</i>
<b>Description</b>	The routing protocol process (rpd) terminated because of an internal error.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error
<b>Action</b>	Examine the messages that immediately follow this message in the system log for information about possible causes.
<b>Cause</b>	An internal software failure occurred.

## RPD\_ACTIVE\_TERMINATE

<b>System Log Message</b>	RPD_ACTIVE_TERMINATE: Exiting with active tasks: <i>task-names</i>
<b>Description</b>	After receiving multiple termination requests, the routing protocol process (rpd) exited without performing the indicated cleanup tasks.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## RPD\_ASSERT

<b>System Log Message</b>	RPD_ASSERT: Assertion failed <i>executable-name</i> [ <i>process-id</i> ]: file " <i>source-file</i> ", line <i>source-line</i> : " <i>test</i> "
<b>Description</b>	The source code for the routing protocol process (rpd) includes internal self-consistency checks. rpd terminated because a check failed, creating a diagnostic core dump for analysis by technical support personnel and noting the number of the line in the source file where the check failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Examine the messages that immediately follow this message in the system log for information about possible causes. Contact a technical support representative, and be ready to provide the list of messages and the diagnostic core dump, if requested.

## RPD\_ASSERT\_SOFT

<b>System Log Message</b>	RPD_ASSERT_SOFT: Soft assertion failed <i>executable-name</i> [ <i>process-id</i> ]: file " <i>source-file</i> ", line <i>source-line</i> : " <i>test</i> ", daemon continued running
<b>Description</b>	The source code for the routing protocol process (rpd) includes internal self-consistency checks. A check failed but rpd continued running. It created a diagnostic core dump for analysis by technical support personnel and noted the number of the line in the source file where the check failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Examine the messages that immediately follow this message in the system log for information about possible causes. Contact a technical support representative, and be ready to provide the list of messages and the diagnostic core dump, if requested.

## RPD\_EXIT

<b>System Log Message</b>	RPD_EXIT: Exit <i>executable-name</i> [ <i>process-id</i> ] version <i>version</i> built by <i>builder</i> on <i>build-date</i>
<b>Description</b>	The routing protocol process (rpd) exited, either in response to a user request or because of a system error.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice
<b>Cause</b>	A system resource was unavailable, rpd did not understand an error, or a user terminated the process.
<b>Action</b>	Examine the messages that immediately follow this message in the system log for information about possible causes.

## RPD\_IFL\_INDEXCOLLISION

<b>System Log Message</b>	RPD_IFL_INDEXCOLLISION: Logical interface collision -- same name, different index (new <i>new-interface</i> <i>new-index</i> old <i>old-interface</i> <i>old-index</i> )
<b>Description</b>	The routing protocol process (rpd) received a message from the kernel in which the numerical index associated with the indicated interface name differed from the index-to-name mapping maintained by rpd.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error
<b>Cause</b>	rpd possibly discarded some interface messages from the kernel without processing them because it received more messages than it could handle. rpd will recover.

## RPD\_IFL\_NAMECOLLISION

<b>System Log Message</b>	RPD_IFL_NAMECOLLISION: Logical interface collision -- different name, same index (new <i>new-interface new-index</i> , old <i>old-interface old-index</i> )
<b>Description</b>	The routing protocol process (rpd) received a message from the kernel in which the name associated with the indicated numerical interface index differed from the name-to-index mapping maintained by rpd.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error
<b>Cause</b>	rpd possibly discarded some interface messages from the kernel without processing them because it received more messages than it could handle. rpd will recover.

## RPD\_ISIS\_ADJDOWN

<b>System Log Message</b>	RPD_ISIS_ADJDOWN: IS-IS lost <i>Lisis-level</i> adjacency to <i>neighbor-sysids</i> on <i>interface-name</i> , reason: <i>reason</i>
<b>Description</b>	An IS-IS adjacency with the indicated neighboring router was terminated. The local router no longer exchanges routing information with, or directs traffic to, the neighboring router.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice
<b>Cause</b>	The communication path to the neighboring router was disrupted, a protocol error occurred, or the neighboring router was powered down.

## RPD\_ISIS\_ADJUP

<b>System Log Message</b>	RPD_ISIS_ADJUP: IS-IS new <i>Lisis-level</i> adjacency to <i>neighbor-sysids</i> on <i>interface</i>
<b>Description</b>	An IS-IS adjacency was established with the indicated neighboring router. The local router can now exchange information with it.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## RPD\_ISIS\_ADJUPNOIP

<b>System Log Message</b>	RPD_ISIS_ADJUPNOIP: IS-IS new <i>Lisis-level</i> adjacency to <i>neighbor-system-ids</i> on <i>interface</i> without an address
<b>Description</b>	An IS-IS adjacency was established with the indicated neighboring router, which is not configured for IS-IS for IP.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice
<b>Cause</b>	The neighboring router is misconfigured because it is enabled for IS-IS but not for exchange of IP route information.
<b>Action</b>	Configure the neighboring router for IS-IS with IP, or remove it from the IS-IS mesh.

## RPD\_ISIS\_LSPCKSUM

<b>System Log Message</b>	RPD_ISIS_LSPCKSUM: IS-IS <i>Lisis-level</i> LSP checksum error, interface <i>interface</i> , LSP id <i>lsp-idl</i> , sequence <i>lsp-sequence</i> , checksum <i>lsp-checksum</i> , lifetime <i>pdu-lifetime</i>
<b>Description</b>	The indicated IS-IS informational link-state PDU (LSP) failed an internal checksum validity test, implying that it was corrupted.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning
<b>Cause</b>	The packet was corrupted in transit between the neighboring IS-IS router and this router, or memory on one of the routers was corrupted.
<b>Action</b>	None, unless a large number of these messages appear in the system log file. The corrupted LSP is purged from the network and sent again by the originator.

## RPD\_ISIS\_OVERLOAD

<b>System Log Message</b>	RPD_ISIS_OVERLOAD: IS-IS database overload
<b>Description</b>	The IS-IS link-state database is full and no additional memory can be allocated for it.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	alert
<b>Cause</b>	No additional memory is available for storing IS-IS link-state information. Either system resources are exhausted or a software error occurred (such as a memory leak in the routing protocol process [rpd]). In the former case, IS-IS might be carrying too much information, or the router configuration includes too many features that use large amounts of system memory.
<b>Action</b>	Perform one or more of the following actions: (1) Check for unusually high memory usage by the IS-IS task or rpd, (2) Unconfigure features that use large amounts of memory, (3) Add more memory to the Routing Engine, (4) Carry fewer IS-IS routes.

## RPD\_KRT\_AFUNSUPRT

<b>System Log Message</b>	RPD_KRT_AFUNSUPRT: <i>task</i> : received <i>message-type</i> message with unsupported address family <i>address-family</i>
<b>Description</b>	The routing protocol process (rpd) received a message from the kernel that referred to the indicated address family, which the rpd process does not support.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error

## RPD\_KRT\_CCC\_IFL\_MODIFY

<b>System Log Message</b>	RPD_KRT_CCC_IFL_MODIFY: <i>errno</i> , <i>error</i>
<b>Description</b>	The routing protocol process (rpd) attempted to modify the CCC-related state for a logical interface, but the request failed.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info
<b>Cause</b>	The kernel possibly lacked the resources to fulfill the request. rpd will recover.

## RPD\_KRT\_DELETED\_RTT

<b>System Log Message</b>	RPD_KRT_DELETED_RTT: <i>task</i> : received deleted routing table from the kernel for family <i>address-family</i> table ID <i>table-id</i>
<b>Description</b>	The routing protocol process (rpd) received a message from the kernel that referred to a routing table that no longer exists.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error

## RPD\_KRT\_IFA\_GENERATION

<b>System Log Message</b>	RPD_KRT_IFA_GENERATION: ifa generation mismatch -- rpd <i>rpd-generation</i> kernel <i>kernel-generation</i>
<b>Description</b>	The routing protocol process (rpd) received a message from the kernel in which the interface address associated with the indicated numerical index differed from the address-to-index mapping maintained by rpd.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice
<b>Cause</b>	rpd possibly discarded some interface messages from the kernel without processing them because it received more messages than it could handle. rpd will recover.

## RPD\_KRT\_IFDCHANGE

<b>System Log Message</b>	RPD_KRT_IFDCHANGE: <i>task CHANGE for ifd ifd-index address/prefix-length failed, error "error"</i>
<b>Description</b>	The routing protocol process (rpd) sent a request to the kernel to change the state of the indicated interface. The request failed.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error
<b>Cause</b>	The kernel possibly lacked the resources to fulfill the request. rpd will recover.

## RPD\_KRT\_IFDEST\_GET

<b>System Log Message</b>	RPD_KRT_IFDEST_GET: <i>task IFDEST GETNEXTmessage-detail for ifd ifd-index.ifd-subunit failed, error "error"</i>
<b>Description</b>	The routing protocol process (rpd) requested state information about the indicated interface from the kernel. The request failed.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error
<b>Cause</b>	The kernel possibly lacked the resources to fulfill the request. rpd will recover.

## RPD\_KRT\_IFDGET

<b>System Log Message</b>	RPD_KRT_IFDGET: <i>task GET index for ifd interface failed, error "error"</i>
<b>Description</b>	The routing protocol process (rpd) requested state information about the indicated interface from the kernel. The request failed.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error
<b>Cause</b>	The kernel possibly lacked the resources to fulfill the request. rpd will recover.

## RPD\_KRT\_IFD\_GENERATION

<b>System Log Message</b>	RPD_KRT_IFD_GENERATION: ifd <i>ifd-index</i> generation mismatch -- rpd <i>rpd-generation</i> kernel <i>kernel-generation</i>
<b>Description</b>	The routing protocol process (rpd) received a message from the kernel in which the physical interface associated with the indicated numerical index differed from the interface-to-index mapping maintained by rpd.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice
<b>Cause</b>	rpd possibly discarded some interface messages from the kernel without processing them because it received more messages than it could handle. rpd will recover.

## RPD\_KRT\_IFL\_GENERATION

<b>System Log Message</b>	RPD_KRT_IFL_GENERATION: ifl <i>ifl-index</i> generation mismatch -- rpd <i>rpd-ifname</i> <i>rpd-generation</i> kernel <i>kernel-ifdname.kernel-iflsubunit</i> <i>kernel-generation</i>
<b>Description</b>	The routing protocol process (rpd) received a message from the kernel in which the logical interface associated with the indicated numerical index differed from the interface-to-index mapping maintained by rpd.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice
<b>Cause</b>	rpd possibly discarded some interface messages from the kernel without processing them because it received more messages than it could handle. rpd will recover.

## RPD\_KRT\_KERNEL\_BAD\_ROUTE

<b>System Log Message</b>	RPD_KRT_KERNEL_BAD_ROUTE: <i>task-name</i> : lost <i>ifl-or-ifa</i> <i>unknown-index</i> for route <i>route-prefix</i>
<b>Description</b>	As it restarted, the routing protocol process (rpd) could not process a route obtained from the kernel because the route contained references to objects that are no longer valid.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning
<b>Cause</b>	rpd did not recognize some elements in the route message, such as the logical interface index or an address family.
<b>Action</b>	rpd can probably solve the problem, but check the entry for the indicated route prefix in the forwarding table. If the prefix's route and forwarding table entry are inconsistent, contact a technical support representative for instructions.

## RPD\_KRT\_NEXTHOP\_OVERFLOW

<b>System Log Message</b>	RPD_KRT_NEXTHOP_OVERFLOW: <i>type prefix</i> : number of next hops ( <i>number-of-nexthops</i> ) exceeded the maximum allowed ( <i>maximum</i> ) -- truncating
<b>Description</b>	The number of next hops for the indicated route exceeded the indicated limit for a single route add operation.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An indexed next hop can use multiple forwarding next hops per forwarding class. It is possible to have more next hops per route than can be carried in a single message. This requires that next hops be reused across forwarding classes, which is not recommended.
<b>Action</b>	Eliminate common next hops across forwarding classes, thereby reducing the total number of next hops which must be specified.

## RPD\_KRT\_NOIFD

<b>System Log Message</b>	RPD_KRT_NOIFD: No device <i>ifd-index</i> for interface <i>ifl-index</i> ( <i>interface</i> )
<b>Description</b>	The routing protocol process (rpd) received a message from the kernel that associated the indicated physical interface device and logical interface. rpd has no record of the device.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error
<b>Cause</b>	rpd possibly discarded some interface messages from the kernel without processing them because it received more messages than it could handle. rpd will recover.

## RPD\_KRT\_UNKNOWN\_RTT

<b>System Log Message</b>	RPD_KRT_UNKNOWN_RTT: <i>task</i> : received routing table message for unknown table ID <i>table-id</i>
<b>Description</b>	The routing protocol process (rpd) received a message from the kernel that referred to the routing table with the indicated ID. rpd has no record of the table.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error

## RPD\_KRT\_VERSION

<b>System Log Message</b>	RPD_KRT_VERSION: Routing socket version mismatch (kernel <i>kernel-version</i> != rpd <i>rpd-version</i> ) -- kernel upgrade required
<b>Description</b>	The routing protocol process (rpd) discovered that the kernel does not support the version of routing sockets it requires.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The kernel version is older than the rpd version.
<b>Action</b>	Upgrade the kernel package.

## RPD\_KRT\_VERSIONNONE

<b>System Log Message</b>	RPD_KRT_VERSIONNONE: Routing socket message type <i>message-type</i> 's version is not supported by kernel, expected <i>rpd-version</i> -- kernel upgrade required
<b>Description</b>	The routing protocol process (rpd) discovered that the kernel does not support the routing socket message types that it requires.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The kernel version is older than the rpd version.
<b>Action</b>	Upgrade the kernel package.

## RPD\_KRT\_VERSIONOLD

<b>System Log Message</b>	RPD_KRT_VERSIONOLD: Routing socket message type <i>message-type</i> 's version is older than expected ( <i>kernel-version</i> < <i>rpd-version</i> ) -- consider upgrading the kernel
<b>Description</b>	The routing protocol process (rpd) discovered that the kernel uses an older version of routing socket message types than it does.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The kernel version is older than the rpd version.
<b>Action</b>	Upgrade the kernel package.

## RPD\_LDP\_INTF\_BLOCKED

<b>System Log Message</b>	RPD_LDP_INTF_BLOCKED: Duplicate session ID detected from <i>neighbor-addressi</i> , interface <i>interface</i> , blocking interface
<b>Description</b>	LDP operations were blocked on the indicated interface because the same session ID was detected across multiple interfaces but per-interface transport addresses are in use.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning

## RPD\_LDP\_INTF\_UNBLOCKED

<b>System Log Message</b>	RPD_LDP_INTF_UNBLOCKED: LDP interface <i>interface</i> is now unblocked
<b>Description</b>	The indicated interface returned to the normal operational state. It was previously blocked because the routing protocol process (rpd) noticed that a duplicate session ID was being used.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning

## RPD\_LDP\_NBRDOWN

<b>System Log Message</b>	RPD_LDP_NBRDOWN: LDP neighbor <i>neighbor-addressi</i> ( <i>interface</i> ) is down
<b>Description</b>	An LDP adjacency was terminated because the indicated neighbor stopped communicating. If the adjacency was the only one with this neighbor, the routing protocol process (rpd) terminated the associated LDP session.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## RPD\_LDP\_NBRUP

<b>System Log Message</b>	RPD_LDP_NBRUP: LDP neighbor <i>neighbor-addressi</i> ( <i>interface</i> ) is up
<b>Description</b>	An LDP adjacency with the indicated neighbor became active. The routing protocol process (rpd) established an LDP session with the neighbor if one did not already exist.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## RPD\_LDP\_SESSIONDOWN

<b>System Log Message</b>	RPD_LDP_SESSIONDOWN: LDP session <i>neighbor-address</i> is down, reason: <i>reason</i>
<b>Description</b>	The routing protocol process (rpd) terminated an LDP session with the indicated neighbor and deleted all labels exchanged during the session.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## RPD\_LDP\_SESSIONUP

<b>System Log Message</b>	RPD_LDP_SESSIONUP: LDP session <i>neighbor-address</i> is up
<b>Description</b>	The routing protocol process (rpd) established an LDP session with the indicated neighbor. The routers began exchanging labels.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## RPD\_LOCK\_FLOCKED

<b>System Log Message</b>	RPD_LOCK_FLOCKED: Unable to obtain a lock on <i>lock-file</i> , is another copy of rpd running?
<b>Description</b>	The routing protocol process (rpd) could not obtain the mutual exclusion lock that prevents more than one instance of rpd from running simultaneously. The system terminated the indicated process.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	Another rpd process is running.
<b>Action</b>	Use the 'show system process' command to verify that another rpd is running.

## RPD\_LOCK\_LOCKED

<b>System Log Message</b>	RPD_LOCK_LOCKED: Unable to obtain a lock on <i>lock-file</i> , <i>program-name</i> [ <i>process-id</i> ] is still running
<b>Description</b>	The routing protocol process (rpd) could not obtain the mutual exclusion lock that prevents more than one instance of rpd from running simultaneously. The system terminated this instance of the routing process.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	Another rpd is running.
<b>Action</b>	Use the 'show system process' command to verify that another rpd is running.

## RPD\_MSDP\_PEER\_DOWN

<b>System Log Message</b>	RPD_MSDP_PEER_DOWN: MSDP peer <i>peer</i> peer-group <i>peer-group</i> out of Established state
<b>Description</b>	The indicated MSDP peer left the Established state. The routing protocol process (rpd) deleted all active sources learned from the peer and will no longer send 'Source Active' messages to it.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## RPD\_MSDP\_PEER\_UP

<b>System Log Message</b>	RPD_MSDP_PEER_UP: MSDP peer <i>peer</i> peer-group <i>peer-group</i> into Established state
<b>Description</b>	The indicated MSDP peer entered the Established state.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## RPD\_OSPF\_NBRDOWN

<b>System Log Message</b>	RPD_OSPF_NBRDOWN: OSPF neighbor <i>neighbor</i> ( <i>interface</i> ) state changed from <i>old-state</i> to <i>new-state</i> due to <i>cause</i>
<b>Description</b>	An OSPF adjacency with the indicated neighboring router was terminated. The local router no longer exchanges routing information with, or directs traffic to, the neighboring router.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## RPD\_OSPF\_NBRUP

<b>System Log Message</b>	RPD_OSPF_NBRUP: OSPF neighbor <i>neighbor (interface)</i> state changed from <i>old-state</i> to <i>new-state</i> due to <i>cause</i>
<b>Description</b>	An OSPF adjacency was established with the indicated neighboring router. The local router can now exchange information with it.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## RPD\_OS\_MEMHIGH

<b>System Log Message</b>	RPD_OS_MEMHIGH: Using <i>kilobytes-used</i> KB of memory, <i>percentage-used</i> percent of available
<b>Description</b>	The routing protocol process (rpd) is using the indicated amount and percentage of Routing Engine memory, which is considered excessive.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error
<b>Cause</b>	Either rpd is leaking memory or the use of system resources is excessive, perhaps because routing filters are misconfigured or the configured network topology is very complex.
<b>Action</b>	Increase the amount of RAM in the Routing Engine.

## RPD\_PIM\_NBRDOWN

<b>System Log Message</b>	RPD_PIM_NBRDOWN: PIM neighbor <i>neighbor</i> timeout interface <i>interface</i>
<b>Description</b>	The indicated PIM neighbor stopped sending keepalive messages. The routing protocol process (rpd) deleted prune state information sent by this neighbor and stopped sending join messages to the neighbor.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## RPD\_PIM\_NBRUP

<b>System Log Message</b>	RPD_PIM_NBRUP: PIM new neighbor <i>neighbor</i> interface <i>interface</i>
<b>Description</b>	The routing protocol process (rpd) discovered the indicated new PIM neighbor on the indicated interface.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## RPD\_RDISC\_CKSUM

<b>System Log Message</b>	RPD_RDISC_CKSUM: Bad checksum for router solicitation from <i>source-address</i> to <i>destination-address</i>
<b>Description</b>	The routing protocol process (rpd) ignored a router discovery solicitation message from the indicated address because the checksum in the message's ICMP header was invalid.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning
<b>Cause</b>	The solicitation message was incorrectly generated or damaged in transit.
<b>Action</b>	Examine the host that generated the solicitation message.

## RPD\_RDISC\_NOMULTI

<b>System Log Message</b>	RPD_RDISC_NOMULTI: Ignoring interface <i>interface-address</i> on <i>interface-name</i> -- multicast not available
<b>Description</b>	The indicated interface was configured for router discovery, but does not support IP multicast operations as required. The routing protocol process (rpd) did not enable router discovery on the interface.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning
<b>Action</b>	Do not configure router discovery on the interface.

## RPD\_RDISC\_NORECVIF

<b>System Log Message</b>	RPD_RDISC_NORECVIF: Unable to locate interface for router solicitation from <i>source-address</i> to <i>destination-address</i>
<b>Description</b>	The routing protocol process (rpd) ignored a router discovery solicitation message from the indicated router because the router's IP address does not share the IP prefix of the local router. The local router is not a candidate for the indicated router because they are not on the same network.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning
<b>Cause</b>	Although the indicated router seems to be locally attached, no interfaces on the local router are configured to handle its IP address. Either the indicated router is configured with the wrong IP address, or the local router is not correctly configured for the network that the indicated router is using.
<b>Action</b>	Ignore this message if it indicates the desired configuration, or reconfigure one or both routers to share a common network.

## RPD\_RDISC\_SOLICITADDR

<b>System Log Message</b>	RPD_RDISC_SOLICITADDR: Expected multicast ( <i>expected-address</i> ) for router solicitation from <i>source-address</i> to <i>destination-address</i>
<b>Description</b>	A router discovery solicitation message received from the indicated address was not sent to the expected multicast address for all routers.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning
<b>Action</b>	Examine the configuration of the router that generated the router discovery solicitation message.

## RPD\_RDISC\_SOLICITICMP

<b>System Log Message</b>	RPD_RDISC_SOLICITICMP: Nonzero ICMP code ( <i>icmp-code</i> ) for router solicitation from <i>source-address</i> to <i>destination-address</i>
<b>Description</b>	The routing protocol process (rpd) ignored a router discovery solicitation message from the indicated router because the ICMP code in the message header was nonzero.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning
<b>Cause</b>	The solicitation message was incorrectly generated.
<b>Action</b>	Examine the host that generated the solicitation message.

## RPD\_RDISC\_SOLICITLEN

<b>System Log Message</b>	RPD_RDISC_SOLICITLEN: Insufficient length ( <i>length</i> ) for router solicitation from <i>source-address</i> to <i>destination-address</i>
<b>Description</b>	The routing protocol process (rpd) ignored a router discovery solicitation message from the indicated router, because the indicated message length is too short.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning
<b>Cause</b>	The solicitation message was incorrectly generated.
<b>Action</b>	Examine the host that generated the solicitation message.

## RPD\_RIP\_AUTH

<b>System Log Message</b>	RPD_RIP_AUTH: Update with invalid authentication from <i>sender-ip-address (interface)</i>
<b>Description</b>	The routing protocol process (rpd) ignored a RIP update because authentication of the update failed.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## RPD\_RIP\_JOIN\_BROADCAST

<b>System Log Message</b>	RPD_RIP_JOIN_BROADCAST: Unable to get broadcast address on <i>interface</i> ; using the all-ones address
<b>Description</b>	RIP cannot run on the indicated interface because the routing protocol process (rpd) could not obtain the broadcast address on the interface as required for running RIP version 1 or version 2 in compatibility mode.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RPD\_RIP\_JOIN\_MULTICAST

<b>System Log Message</b>	RPD_RIP_JOIN_MULTICAST: Unable to join multicast group on <i>interface: error-message</i>
<b>Description</b>	RIP cannot run on the indicated interface, because the routing protocol process (rpd) could not join the RIP multicast group as required for RIP version 2 multicast updates.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RPD\_RT\_IFUP

<b>System Log Message</b>	RPD_RT_IFUP: UP route for interface <i>interface</i> index <i>ifl-index</i> <i>address/prefix-length</i>
<b>Description</b>	The interface route for the indicated interface and prefix changed state from down to up, becoming available for routing purposes.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning

## RPD\_SCHED\_CALLBACK\_LONGRUNTIME

<b>System Log Message</b>	RPD_SCHED_CALLBACK_LONGRUNTIME: <i>function: excessive runtime time during action of module</i>
<b>Description</b>	The indicated submodule of the routing protocol process (rpd) ran uninterrupted for the indicated period of time, which is considered excessive.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning
<b>Cause</b>	The duration was noted because task accounting is enabled. The implementation of this function is possibly inefficient.

## RPD\_SCHED\_CUMULATIVE\_LONGRUNTIME

<b>System Log Message</b>	RPD_SCHED_CUMULATIVE_LONGRUNTIME: <i>function: excessive runtime (total of time in calls callbacks) after action of module</i>
<b>Description</b>	Several submodules of the routing protocol process (rpd) ran uninterrupted for the indicated period of time, which is considered excessive.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning
<b>Cause</b>	The duration was noted because task accounting is enabled. The implementation of this function is possibly inefficient.

## RPD\_SCHED\_MODULE\_LONGRUNTIME

<b>System Log Message</b>	RPD_SCHED_MODULE_LONGRUNTIME: <i>function: excessive runtime time during action of module</i>
<b>Description</b>	Several submodules of the routing protocol process (rpd) ran uninterrupted for the indicated period of time, which is considered excessive.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning
<b>Cause</b>	The duration was noted because task accounting is enabled. The implementation of this function is possibly inefficient.

## RPD\_SCHED\_TASK\_LONGRUNTIME

<b>System Log Message</b>	RPD_SCHED_TASK_LONGRUNTIME: <i>function ran for total-time (user-time user, system-time system) doing action</i>
<b>Description</b>	A task callback within the routing protocol process (rpd) ran uninterrupted for the indicated period of time, which is considered excessive.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning
<b>Cause</b>	The duration was noted because task accounting is enabled. The implementation of this function is possibly inefficient.

## RPD\_SIGNAL\_TERMINATE

<b>System Log Message</b>	RPD_SIGNAL_TERMINATE: <i>signal-name</i> termination signal received
<b>Description</b>	In response to the indicated termination request, the routing protocol process (rpd) terminated adjacencies with neighbors and shut down.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## RPD\_START

<b>System Log Message</b>	RPD_START: Start <i>executable-name</i> [ <i>process-id</i> ] version <i>version</i> built <i>build-date</i>
<b>Description</b>	The routing protocol process (rpd) started.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## RPD\_SYSTEM

<b>System Log Message</b>	RPD_SYSTEM: <i>detail: error-message</i>
<b>Description</b>	A system call made by the routing protocol process (rpd) failed.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error
<b>Cause</b>	The kernel possibly lacked the resources to fulfill the request. rpd will recover.

## RPD\_TASK\_BEGIN

<b>System Log Message</b>	RPD_TASK_BEGIN: Commencing routing updates, version <i>rpd-version</i> , built <i>build-date</i> by <i>builder</i>
<b>Description</b>	The routing protocol process (rpd) started.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## RPD\_TASK\_CHILDKILLED

<b>System Log Message</b>	RPD_TASK_CHILDKILLED: <i>task</i> terminated by SIG <i>signal-name</i> <i>core-status</i>
<b>Description</b>	While a child process of the routing protocol process (rpd) was performing the indicated operation, it terminated in response to the indicated signal.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error

## RPD\_TASK\_CHILDSTOPPED

<b>System Log Message</b>	RPD_TASK_CHILDSTOPPED: <i>task</i> stopped by SIG <i>signal-name</i>
<b>Description</b>	While a child process of the routing protocol process (rpd) was performing the indicated operation, it stopped in response to the indicated signal.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error

## RPD\_TASK\_FORK

<b>System Log Message</b>	RPD_TASK_FORK: Unable to fork <i>task</i> : <i>error-message</i>
<b>Description</b>	The routing protocol process failed to create the indicated child process.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RPD\_TASK\_GETWD

<b>System Log Message</b>	RPD_TASK_GETWD: getwd: <i>error-message</i>
<b>Description</b>	The getwd() system call made by the routing protocol process (rpd) failed.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error
<b>Cause</b>	The kernel possibly lacked the resources to fulfill the request. rpd will recover.

## RPD\_TASK\_NOREINIT

<b>System Log Message</b>	RPD_TASK_NOREINIT: Reinitialization not possible
<b>Description</b>	The routing protocol process (rpd) failed to reinitialize as requested, because it was running in a state that did not allow reconfiguration.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error

## RPD\_TASK\_PIDCLOSED

<b>System Log Message</b>	RPD_TASK_PIDCLOSED: Unable to close and remove <i>pid-file</i> : <i>error-message</i>
<b>Description</b>	The routing protocol process (rpd) tried to close and remove the file that records its process ID (PID), which serves to prevent multiple instances of rpd from running simultaneously. The attempt failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RPD\_TASK\_PIDFLOCK

<b>System Log Message</b>	RPD_TASK_PIDFLOCK: flock( <i>pid-file</i> , LOCK_EX): <i>error-message</i>
<b>Description</b>	The routing protocol process (rpd) issued the flock() system call on the file that records its process ID (PID), which serves to prevent multiple instances of rpd from running simultaneously. The system call failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## RPD\_TASK\_PIDWRITE

**System Log Message** RPD\_TASK\_PIDWRITE:  
Unable to write *pid-file*: *error-message*

**Description** The routing protocol process (rpd) tried to write to the file that records its process ID (PID), which serves to prevent multiple instances of rpd from running simultaneously. The attempt failed.

**Type** Error: An error occurred

**Severity** error

## RPD\_TASK\_REINIT

**System Log Message** RPD\_TASK\_REINIT:  
Reinitializing

**Description** The routing protocol process (rpd) reinitialized.

**Type** Event: This message reports an event, not an error

**Severity** info

## RPD\_TASK\_SIGNALIGNORE

**System Log Message** RPD\_TASK\_SIGNALIGNORE:  
sigaction(SIG*signal-name*): *error-message*

**Description** The routing protocol process (rpd) informed the kernel that it wished to ignore the indicated signal, but the kernel failed to process the request.

**Type** Error: An error occurred

**Severity** error

# Chapter 16

## SERVICED System Log Messages

This chapter describes messages generated by the Services Physical Interface Cards (PICs) process (serviced), which provides the user interface for management and configuration of J20 gateway GPRS support node control (GGSN-C) PICs.

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- **SERVICED\_CLIENT\_DISCONNECTED** on page 126
- **SERVICED\_CLIENT\_ERROR** on page 127
- **SERVICED\_COMMAND\_FAILED** on page 127
- **SERVICED\_COMMIT\_FAILED** on page 127
- **SERVICED\_CONFIGURATION\_FAILED** on page 128
- **SERVICED\_CONFIG\_ERROR** on page 128
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## SERVICED\_CLIENT\_CONNECT

<b>System Log Message</b>	SERVICED_CLIENT_CONNECT: <i>function</i> : attempt to connect to <i>interface</i> failed with error: <i>reason (error-number)</i>
<b>Description</b>	To execute commands, the system makes connections to interface clients. The connection attempt failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_CLIENT\_DISCONNECTED

<b>System Log Message</b>	SERVICED_CLIENT_DISCONNECTED: <i>function</i> : unexpected termination of connection to <i>interface</i>
<b>Description</b>	The remote client closed the connection or stopped responding.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_CLIENT\_ERROR

<b>System Log Message</b>	SERVICED_CLIENT_ERROR: <i>function: client interface connection failure: reason (error-number)</i>
<b>Description</b>	An I/O error caused the termination of a connection with an interface client.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_COMMAND\_FAILED

<b>System Log Message</b>	SERVICED_COMMAND_FAILED: <i>function: remote command execution failed with error: reason (error-number)</i>
<b>Description</b>	An error caused a command being executed on an interface client to be cancelled.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_COMMIT\_FAILED

<b>System Log Message</b>	SERVICED_COMMIT_FAILED: <i>client failed to commit configuration with error: reason</i>
<b>Description</b>	The system relays configuration data to service PICs that provide the application services. An attempt to commit a configuration failed for one or more applications.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_CONFIGURATION\_FAILED

<b>System Log Message</b>	SERVICED_CONFIGURATION_FAILED: <i>function: configuration process failed with error: reason</i>
<b>Description</b>	A new configuration failed to process correctly and failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The cause varies depending on the daemon that failed. Check syslog output for additional details.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_CONFIG\_ERROR

<b>System Log Message</b>	SERVICED_CONFIG_ERROR: Reason: <i>reason</i>
<b>Description</b>	The Services PICs process (serviced) found an error while reading or applying the information in the configuration database.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_CONFIG\_FILE

<b>System Log Message</b>	SERVICED_CONFIG_FILE: <i>function: library-call failed to read path with error: reason (error-number)</i>
<b>Description</b>	An I/O error occurred when the Services PICs process (serviced) attempted to read exported configuration information.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_CONNECTION\_ERROR

<b>System Log Message</b>	SERVICED_CONNECTION_ERROR: <i>function: connection closed</i>
<b>Description</b>	The remote client closed the connection when data was expected.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_DUPLICATE

<b>System Log Message</b>	SERVICED_DUPLICATE: Another copy of this program is running
<b>Description</b>	As a part of normal startup, the Services PICs process (serviced) locks a file and writes its process ID (PID) into it. It could not lock the file, indicating that another copy of the process was already running.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_EVENT\_FAILED

<b>System Log Message</b>	SERVICED_EVENT_FAILED: <i>function: event function library-call failed with error: reason (error-number)</i>
<b>Description</b>	The Services PICs process (serviced) could not continue processing a task because a call to a function in the event library failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_INIT\_FAILED

<b>System Log Message</b>	SERVICED_INIT_FAILED: <i>function: initialization failed with error: reason</i>
<b>Description</b>	One of the steps in the initialization sequence for the Services PICs process (serviced) failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	just-reported

## SERVICED\_MALLOC\_FAILURE

<b>System Log Message</b>	SERVICED_MALLOC_FAILURE: <i>function: failed to allocate [object] object [bytes bytes]: reason (error-number)</i>
<b>Description</b>	The Services PICs process (serviced) could not allocate the number of bytes needed to hold the indicated object.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_NETWORK\_FAILURE

<b>System Log Message</b>	SERVICED_NETWORK_FAILURE: <i>function: library-call had error: reason (error-number)</i>
<b>Description</b>	An attempt to use the indicated network library call failed with an error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_NOT\_ROOT

<b>System Log Message</b>	SERVICED_NOT_ROOT: Must be run as root
<b>Description</b>	The user who attempted to start the Services PICs process (serviced) was not the root user.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_PID\_FILE\_LOCK

<b>System Log Message</b>	SERVICED_PID_FILE_LOCK: Unable to lock PID file: <i>reason (error-number)</i>
<b>Description</b>	As a part of normal startup, the Services PICs process (serviced) locks a file and writes its process ID (PID) into it. It could not lock the file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_PID\_FILE\_UPDATE

<b>System Log Message</b>	SERVICED_PID_FILE_UPDATE: Unable to update process PID file: <i>reason (error-number)</i>
<b>Description</b>	As a part of normal startup, the Services PICs process (serviced) locks a file and writes its process ID (PID) into it. It could not write to the file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_RTsock\_SEQUENCE

<b>System Log Message</b>	SERVICED_RTsock_SEQUENCE: <i>function</i> : routing socket sequence error, expected <i>expected-idl</i> , received <i>received-idl</i>
<b>Description</b>	The Services PICs process (serviced) encountered a sequence error while receiving messages from the routing socket library.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_SIGNAL\_HANDLER

<b>System Log Message</b>	SERVICED_SIGNAL_HANDLER: <i>function</i> : set up of signal <i>name</i> handler failed with error: <i>reason (error-number)</i>
<b>Description</b>	As a part of normal functioning, the Services PICs process (serviced) attempted to initialize a signal-handling function. Part of the initialization failed with an error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_SOCKET\_CREATE

<b>System Log Message</b>	SERVICED_SOCKET_CREATE: <i>function</i> : socket create failed with error: <i>reason (error-number)</i>
<b>Description</b>	An attempt by the Services PICs process (serviced) to create a new socket for communication with an interface client failed with an error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_SOCKET\_IO

<b>System Log Message</b>	SERVICED_SOCKET_IO: <i>function: socket function library-call failed with error: reason (error-number)</i>
<b>Description</b>	A call to a socket library function indicated that an error occurred while attempting to perform I/O.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_SOCKET\_OPTION

<b>System Log Message</b>	SERVICED_SOCKET_OPTION: <i>function: unable to set socket option socket-option: reason</i>
<b>Description</b>	An attempt to set an option on a socket failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## SERVICED\_STDLIB\_FAILURE

<b>System Log Message</b>	SERVICED_STDLIB_FAILURE: <i>function: library-call had error: reason (error-number)</i>
<b>Description</b>	The value returned by a call to a library function indicated that an error occurred.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SERVICED\_USAGE

<b>System Log Message</b>	SERVICED_USAGE: Incorrect usage: <i>usage</i>
<b>Description</b>	The Services PICs process (serviced) displayed its usage statement.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The serviced process was not invoked with correct command-line arguments.
<b>Action</b>	Check the usage and invoke the serviced process with the correct command-line arguments.

## SERVICED\_WORK\_INCONSISTENCY

<b>System Log Message</b>	SERVICED_WORK_INCONSISTENCY: <i>function: object</i> has unexpected value <i>work-sequence-number</i> (expected <i>expected-sequence-number</i> )
<b>Description</b>	The expected and actual work sequence numbers did not match.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

# Chapter 17

## SNMPD System Log Messages

This chapter describes messages generated by the Simple Network Management Protocol (SNMP) agent process (snmpd), which responds to SNMP requests. As necessary, it passes the requests to subagent processes running on its machine and forwards the traps they generate to the SNMP manager.

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## SNMPD\_ACCESS\_GROUP\_ERROR

<b>System Log Message</b>	SNMPD_ACCESS_GROUP_ERROR: <i>function-name: error in operation-type access group 'group-name' context 'context-name' model 'model' level 'level'</i>
<b>Description</b>	The indicated operation (creation, installation, or deletion) failed during configuration of the indicated access group.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_AUTH\_FAILURE

<b>System Log Message</b>	SNMPD_AUTH_FAILURE: <i>function-name: auth-message from source-address to destination-address (index1)</i>
<b>Description</b>	The indicated function failed because the authorization check failed for the interface, SNMP community, or user making the request.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	notice
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_AUTH\_PRIVILEGES\_EXCEEDED

<b>System Log Message</b>	SNMPD_AUTH_PRIVILEGES_EXCEEDED: <i>function-name: source-address: request exceeded community privileges</i>
<b>Description</b>	The indicated function failed because the SNMP community making the access request did not have the required privileges.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	notice
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_AUTH\_WRONG\_PDU\_TYPE

<b>System Log Message</b>	SNMPD_AUTH_WRONG_PDU_TYPE: <i>function-name: source-address: unauthorized SNMP PDU type: pdu-type</i>
<b>Description</b>	The indicated function failed because the indicated type of protocol data unit (PDU) is not supported.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	notice
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_CONFIG\_ERROR

<b>System Log Message</b>	SNMPD_CONFIG_ERROR: Configuration database has errors
<b>Description</b>	The SNMP agent process (snmpd) detected an error in the SNMP configuration database.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## SNMPD\_CONTEXT\_ERROR

<b>System Log Message</b>	SNMPD_CONTEXT_ERROR: <i>function-name: error in operation-type context context-name</i>
<b>Description</b>	The indicated operation (addition or deletion) failed during configuration of the indicated SNMP context.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_ENGINE\_FILE\_FAILURE

<b>System Log Message</b>	SNMPD_ENGINE_FILE_FAILURE: <i>function-name: operation: operation-type filename: error-message</i>
<b>Description</b>	The SNMP agent process (snmpd) could not perform the indicated operation on the indicated SNMP engine data file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	critical
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_ENGINE\_PROCESS\_ERROR

<b>System Log Message</b>	SNMPD_ENGINE_PROCESS_ERROR: <i>function-name: from-path: undecodable/unmatched subagent response</i>
<b>Description</b>	The SNMP agent process (snmpd) could not process a message from a subagent.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_FILE\_FAILURE

<b>System Log Message</b>	SNMPD_FILE_FAILURE: <i>function-name: fopen filename: error-message</i>
<b>Description</b>	The SNMP agent process (snmpd) could not access the indicated file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	emergency
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_GROUP\_ERROR

<b>System Log Message</b>	SNMPD_GROUP_ERROR: <i>function-name</i> : error in <i>operation-type</i> group: ' <i>group-name</i> ' user ' <i>username</i> ' model ' <i>model-name</i> '
<b>Description</b>	The indicated operation (creation, installation, or deletion) failed during configuration of the indicated group.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_INIT\_FAILED

<b>System Log Message</b>	SNMPD_INIT_FAILED: snmpd initialization failure: <i>error-message</i>
<b>Description</b>	Initialization of the SNMP agent process (snmpd) failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_LIBJUNIPER\_FAILURE

<b>System Log Message</b>	SNMPD_LIBJUNIPER_FAILURE: <i>function-name</i> : system_default_inaddr: <i>error-message</i>
<b>Description</b>	The indicated function from the Juniper Networks SNMP library failed and returned the indicated error to the SNMP agent process (snmpd).
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_LOOPBACK\_ADDR\_ERROR

<b>System Log Message</b>	SNMPD_LOOPBACK_ADDR_ERROR: <i>function-name: error error-message on sending ifaddr routing socket</i>
<b>Description</b>	The SNMP agent process (snmpd) received the indicated error message when it requested a system loopback address.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_MEMORY\_FREED

<b>System Log Message</b>	SNMPD_MEMORY_FREED: <i>function-name: called for freed - already freed</i>
<b>Description</b>	The SNMP agent process (snmpd) could not free memory used for communication with a subagent.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_RADIX\_FAILURE

<b>System Log Message</b>	SNMPD_RADIX_FAILURE: <i>function-name: radix_add failed: error-message</i>
<b>Description</b>	The SNMP agent process (snmpd) uses radix trees to store valid client prefixes, which are used to determine authorization for requests from users and communities. It could not create a new entry in a radix tree.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_RECEIVE\_FAILURE

<b>System Log Message</b>	SNMPD_RECEIVE_FAILURE: <i>function-name: receive receive-type failure: error-message</i>
<b>Description</b>	The SNMP agent process (snmpd) could not receive a protocol data unit (PDU) from UDP or a message from a subagent.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_RMONFILE\_FAILURE

<b>System Log Message</b>	SNMPD_RMONFILE_FAILURE: <i>function-name: operation: operation-type filename: error-message</i>
<b>Description</b>	The indicated operation failed on the indicated RMON data file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	critical
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_RMON\_COOKIE

<b>System Log Message</b>	SNMPD_RMON_COOKIE: <i>function-name: Null cookie</i>
<b>Description</b>	An invalid data pointer was returned when the RMON asynchronous completion handler performed an RMON alarm operation.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_RMON\_EVENTLOG

<b>System Log Message</b>	SNMPD_RMON_EVENTLOG: <i>function-name: log-message</i>
<b>Description</b>	The indicated RMON event completed.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning

## SNMPD\_RMON\_IOERROR

<b>System Log Message</b>	SNMPD_RMON_IOERROR: <i>function-name: Received io error, entry (alarm-index), error code (error-code)</i>
<b>Description</b>	An RMON alarm MIB request being processed by the SNMP agent process (snmpd) failed with an I/O error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_RMON\_MIBERROR

<b>System Log Message</b>	SNMPD_RMON_MIBERROR: <i>function-name: internal Get request error: description, alarm alarm-id, error error-type, variable: variable-name (oid)</i>
<b>Description</b>	A Get request for a monitored object instance failed during initialization of the indicated RMON alarm.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_RTSLIB\_ASYNC\_EVENT

<b>System Log Message</b>	SNMPD_RTSLIB_ASYNC_EVENT: <i>function-name: sequence mismatch (expected-value, received-value), resyncing</i>
<b>Description</b>	A notification from the kernel to the SNMP agent process (snmpd) was lost.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## SNMPD\_SEND\_FAILURE

<b>System Log Message</b>	SNMPD_SEND_FAILURE: <i>function-name: send send-type (index1) failure: error-message</i>
<b>Description</b>	The SNMP agent process (snmpd) could not send a protocol data unit (PDU) to UDP or a message to a subagent.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_SOCKET\_FAILURE

<b>System Log Message</b>	SNMPD_SOCKET_FAILURE: <i>function-name: socket failure: socket-error (error-message)</i>
<b>Description</b>	The SNMP agent process (snmpd) uses sockets for communication with subagents. It could not create or remove a socket.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_SUBAGENT\_NO\_BUFFERS

<b>System Log Message</b>	SNMPD_SUBAGENT_NO_BUFFERS: No buffers available for subagent ( <i>subagent-name</i> )
<b>Description</b>	The SNMP agent process (snmpd) uses buffers for communication with subagents. No buffers were available for communication with the indicated subagent.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	notice
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_SUBAGENT\_SEND\_FAILED

<b>System Log Message</b>	SNMPD_SUBAGENT_SEND_FAILED: Send to subagent failed ( <i>subagent-name</i> ): <i>error-message</i>
<b>Description</b>	The SNMP agent process (snmpd) could not send a message to the indicated subagent.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_SYSLIB\_FAILURE

<b>System Log Message</b>	SNMPD_SYSLIB_FAILURE: <i>function-name</i> : system function ' <i>system-function</i> ' failed: <i>error-message</i>
<b>Description</b>	The indicated function from the SNMP system library failed and returned the indicated error to the SNMP agent process (snmpd).
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_THROTTLE\_QUEUE\_DRAINED

<b>System Log Message</b>	SNMPD_THROTTLE_QUEUE_DRAINED: <i>function-name</i> : cleared all throttled traps
<b>Description</b>	The queue of throttled traps was cleared.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## SNMPD\_TRAP\_COLD\_START

<b>System Log Message</b>	SNMPD_TRAP_COLD_START: <i>function-name</i> : SNMP trap: cold start
<b>Description</b>	The SNMP agent process (snmpd) generated a cold-start trap when the entire Routing Engine (including snmpd) initialized.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	critical

## SNMPD\_TRAP\_GEN\_FAILURE

<b>System Log Message</b>	SNMPD_TRAP_GEN_FAILURE: <i>function-name</i> : SNMP trap error: <i>trap-message</i> ( <i>error-message</i> )
<b>Description</b>	The SNMP agent process (snmpd) could not generate a trap.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	emergency
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_TRAP\_GEN\_FAILURE2

<b>System Log Message</b>	SNMPD_TRAP_GEN_FAILURE2: <i>function-name</i> : SNMP trap error: <i>trap-message</i> <i>index1</i> <i>index1</i> <i>index2</i> <i>index2</i>
<b>Description</b>	The SNMP agent process (snmpd) could not generate a trap.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_TRAP\_INVALID\_DATA

<b>System Log Message</b>	SNMPD_TRAP_INVALID_DATA: <i>function-name</i> : SNMP trap error: invalid <i>field-name</i> ( <i>value-received</i> ) received
<b>Description</b>	The SNMP agent process (snmpd) received a trap message from a subagent that contained an invalid variable binding (varbind) type.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_TRAP\_NOT\_ENOUGH\_VARBINDS

<b>System Log Message</b>	SNMPD_TRAP_NOT_ENOUGH_VARBINDS: <i>function-name</i> : SNMP trap error: not enough varbinds for valid header ( <i>varbinds-received</i> < <i>varbinds-expected</i> )
<b>Description</b>	The SNMP agent process (snmpd) received a trap message from a subagent that contained fewer variable bindings (varbinds) than expected.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_TRAP\_QUEUED

<b>System Log Message</b>	SNMPD_TRAP_QUEUED: Adding trap to <i>trap-destination</i> to <i>queue-name</i> queue, <i>queue-size</i> traps in queue
<b>Description</b>	A trap was queued for later transmission.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info
<b>Cause</b>	Possible causes include the following: the system is not completely initialized, a route does not exist, or traps are being throttled.

## SNMPD\_TRAP\_QUEUE\_DRAINED

<b>System Log Message</b>	SNMPD_TRAP_QUEUE_DRAINED: <i>function-name</i> : traps queued to <i>trap-destination</i> sent successfully
<b>Description</b>	The queued traps for the indicated destination were successfully sent.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## SNMPD\_TRAP\_QUEUE\_MAX\_ATTEMPTS

<b>System Log Message</b>	SNMPD_TRAP_QUEUE_MAX_ATTEMPTS: <i>function-name</i> : after <i>number-of-attempts</i> attempts, deleting <i>number-of-traps</i> traps queued to <i>trap-destination</i>
<b>Description</b>	The number of attempts to send traps to the indicated destination exceeded the configured maximum. The traps still waiting to be sent were discarded.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Action</b>	Contact your technical support representative.

## SNMPD\_TRAP\_QUEUE\_MAX\_SIZE

<b>System Log Message</b>	SNMPD_TRAP_QUEUE_MAX_SIZE: <i>function-name</i> : maximum queue size exceeded ( <i>queue-size</i> ), discarding trap to <i>trap-destination</i> from <i>queue-name</i> queue
<b>Description</b>	The number of traps in the trap queue exceeded the configured maximum. The traps still waiting to be sent were discarded.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## SNMPD\_TRAP\_THROTTLED

<b>System Log Message</b>	SNMPD_TRAP_THROTTLED: <i>function-name</i> : traps throttled after <i>trap-count</i> traps
<b>Description</b>	The number of traps waiting for transmission exceeded the configured maximum, so the remaining traps were throttled.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## SNMPD\_TRAP\_TYPE\_ERROR

<b>System Log Message</b>	SNMPD_TRAP_TYPE_ERROR: <i>function-name</i> : unknown trap type requested ( <i>trap-type</i> )
<b>Description</b>	The SNMP agent process (snmpd) received an SNMP Version 1 trap message that included an unknown trap type.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_TRAP\_VARBIND\_TYPE\_ERROR

<b>System Log Message</b>	SNMPD_TRAP_VARBIND_TYPE_ERROR: <i>function-name</i> : SNMP trap error: expecting <i>varbind-number</i> varbind to be VT_NUMBER ( <i>expected-value</i> )
<b>Description</b>	The SNMP agent process (snmpd) received a trap message from a subagent that contained an unexpected variable binding (varbind) type.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_TRAP\_VERSION\_ERROR

<b>System Log Message</b>	SNMPD_TRAP_VERSION_ERROR: <i>function-name</i> : SNMP trap error: invalid version signature (0x <i>received-signature</i> != 0x <i>expected-signature</i> )
<b>Description</b>	The SNMP agent process (snmpd) received a trap message from a subagent that contained an invalid version signature in its header.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_TRAP\_WARM\_START

<b>System Log Message</b>	SNMPD_TRAP_WARM_START: <i>function-name</i> : SNMP trap: warm start
<b>Description</b>	The SNMP agent process (snmpd) generated a warm-start trap when it initialized (other Routing Engine processes were already active).
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	error

## SNMPD\_USER\_ERROR

<b>System Log Message</b>	SNMPD_USER_ERROR: <i>function-name</i> : error in <i>user-error</i> user ' <i>username</i> ' auth ' <i>auth-type</i> ' priv ' <i>priv-type</i> '
<b>Description</b>	The indicated operation (creation, installation, or deletion) failed during configuration of the indicated user.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_VIEW\_DELETE

<b>System Log Message</b>	SNMPD_VIEW_DELETE: <i>function-name</i> : deleting view <i>view-name</i> oid <i>oid-name</i> not found
<b>Description</b>	The SNMP agent process (snmpd) could not service a request to delete the MIB view with the indicated name and object identifier (OID), because it could not find the view.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_VIEW\_INSTALL\_DEFAULT

<b>System Log Message</b>	SNMPD_VIEW_INSTALL_DEFAULT: <i>function-name: error installing default view-mode view view-name</i>
<b>Description</b>	The SNMP agent process (snmpd) could not install one of the default views.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMPD\_VIEW\_OID\_PARSE

<b>System Log Message</b>	SNMPD_VIEW_OID_PARSE: <i>function-name: oid parsing failed for view view-name oid oid-name</i>
<b>Description</b>	The SNMP agent process (snmpd) could not parse the object identifier (OID) configured for the indicated MIB view.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

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# Chapter 18

## SNMP System Log Messages

This chapter describes messages generated by two kinds of processes:

- Processes that perform Simple Network Management Protocol (SNMP) operations, such as the Management Information Base II (MIB II) process (mib2d) and the SNMP agent process (snmpd). Those processes also generate messages with prefixes that match their names, as described in “MIB2D System Log Messages” on page 67 and “SNMPD System Log Messages” on page 135.
- Processes that are instrumented to generate system log messages when they send SNMP traps. The SNMP remote operations process (rmopd) is one such process. It also generates messages with the RMOPD\_ prefix, which are described in “RMOPD System Log Messages” on page 95.

See the following sections:

- SNMP\_GET\_ERROR1 on page 154
- SNMP\_GET\_ERROR2 on page 154
- SNMP\_GET\_ERROR3 on page 154
- SNMP\_GET\_ERROR4 on page 155
- SNMP\_RTSLIB\_FAILURE on page 155
- SNMP\_TRAP\_LINK\_DOWN on page 155
- SNMP\_TRAP\_LINK\_UP on page 156
- SNMP\_TRAP\_PING\_PROBE\_FAILED on page 156
- SNMP\_TRAP\_PING\_TEST\_COMPLETED on page 156
- SNMP\_TRAP\_PING\_TEST\_FAILED on page 156
- SNMP\_TRAP\_TRACE\_ROUTE\_PATH\_CHANGE on page 157
- SNMP\_TRAP\_TRACE\_ROUTE\_TEST\_COMPLETED on page 157
- SNMP\_TRAP\_TRACE\_ROUTE\_TEST\_FAILED on page 157

## SNMP\_GET\_ERROR1

<b>System Log Message</b>	SNMP_GET_ERROR1: <i>function-name operation-type failed for object-name: index1 index1 (error-message)</i>
<b>Description</b>	An SNMP Get or GetNext request failed for the indicated object, which has the indicated index.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMP\_GET\_ERROR2

<b>System Log Message</b>	SNMP_GET_ERROR2: <i>function-name operation-type failed for object-name: index1 index1 index2 index2 (error-message)</i>
<b>Description</b>	An SNMP Get or GetNext request failed for the indicated object, which has the indicated indexes.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMP\_GET\_ERROR3

<b>System Log Message</b>	SNMP_GET_ERROR3: <i>function-name operation-type failed for object-name: index1 index1 index2 index2 index3 index3 (error-message)</i>
<b>Description</b>	An SNMP Get or GetNext request failed for the indicated object, which has the indicated indexes.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMP\_GET\_ERROR4

<b>System Log Message</b>	SNMP_GET_ERROR4: <i>function-name operation-type</i> failed for <i>object-name</i> : <i>index1 index1 index2 index2 index3 index3 index4 index4 (error-message)</i>
<b>Description</b>	An SNMP Get or GetNext request failed for the indicated object, which has the indicated indexes.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMP\_RTSLIB\_FAILURE

<b>System Log Message</b>	SNMP_RTSLIB_FAILURE: <i>function-name: rtplib-error: error-message</i>
<b>Description</b>	A call to the indicated function in the routing socket library failed with the indicated error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	emergency
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## SNMP\_TRAP\_LINK\_DOWN

<b>System Log Message</b>	SNMP_TRAP_LINK_DOWN: <i>ifIndex if-index, ifAdminStatus admin-status, ifOperStatus oper-status, ifName interface-name</i>
<b>Description</b>	The SNMP agent process (snmpd) generated a linkDown trap because the indicated interface changed state to 'down'.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning

## SNMP\_TRAP\_LINK\_UP

<b>System Log Message</b>	SNMP_TRAP_LINK_UP: ifIndex <i>if-index</i> , ifAdminStatus <i>admin-status</i> , ifOperStatus <i>oper-status</i> , ifName <i>interface-name</i>
<b>Description</b>	The SNMP agent process (snmpd) generated a linkUp trap because the indicated interface changed state to 'up'.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## SNMP\_TRAP\_PING\_PROBE\_FAILED

<b>System Log Message</b>	SNMP_TRAP_PING_PROBE_FAILED: pingCtlOwnerIndex = <i>test-owner</i> ; pingCtlTestName = <i>test-name</i>
<b>Description</b>	The SNMP remote operations process (rmopd) generated a pingProbeFailed trap because the number of successive probe failures exceeded the pingCtlTrapProbeFailureFilter threshold.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## SNMP\_TRAP\_PING\_TEST\_COMPLETED

<b>System Log Message</b>	SNMP_TRAP_PING_TEST_COMPLETED: pingCtlOwnerIndex = <i>test-owner</i> ; pingCtlTestName = <i>test-name</i>
<b>Description</b>	The SNMP remote operations process (rmopd) generated a pingTestCompleted trap because all probes were sent and the number of failed probes was less than the pingCtlTrapTestFailureFilter threshold.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## SNMP\_TRAP\_PING\_TEST\_FAILED

<b>System Log Message</b>	SNMP_TRAP_PING_TEST_FAILED: pingCtlOwnerIndex = <i>test-owner</i> ; pingCtlTestName = <i>test-name</i>
<b>Description</b>	The SNMP remote operations process (rmopd) generated a pingTestFailed trap because all probes were sent but the number of failed probes equaled or exceeded the pingCtlTrapTestFailureFilter threshold.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## SNMP\_TRAP\_TRACE\_ROUTE\_PATH\_CHANGE

<b>System Log Message</b>	SNMP_TRAP_TRACE_ROUTE_PATH_CHANGE: traceRouteCtlOwnerIndex = <i>test-owner</i> ; traceRouteCtlTestName = <i>test-name</i>
<b>Description</b>	The SNMP remote operations process (rmopd) generated a traceRoutePathChange trap because two probes with the same time-to-live (TTL) value returned with different IP addresses.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## SNMP\_TRAP\_TRACE\_ROUTE\_TEST\_COMPLETED

<b>System Log Message</b>	SNMP_TRAP_TRACE_ROUTE_TEST_COMPLETED: traceRouteCtlOwnerIndex = <i>test-owner</i> ; traceRouteCtlTestName = <i>test-name</i>
<b>Description</b>	The SNMP remote operations process (rmopd) generated a tracerouteTestCompleted trap because the test completed and the full path to the target was determined.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## SNMP\_TRAP\_TRACE\_ROUTE\_TEST\_FAILED

<b>System Log Message</b>	SNMP_TRAP_TRACE_ROUTE_TEST_FAILED: traceRouteCtlOwnerIndex = <i>test-owner</i> ; traceRouteCtlTestName = <i>test-name</i>
<b>Description</b>	The SNMP remote operations process (rmopd) generated a tracerouteTestFailed trap because the test completed and the full path to the target was not determined.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info



# Chapter 19

## TFTPD System Log Messages

This chapter describes messages generated by the Trivial File Transfer Protocol (TFTP) process (tnp.tftpd), which services requests from hardware components for the configuration files they use during initialization.

- TFTPД\_AF\_ERR on page 160
- TFTPД\_BIND\_ERR on page 160
- TFTPД\_CONNECT\_ERR on page 160
- TFTPД\_CONNECT\_INFO on page 160
- TFTPД\_CREATE\_ERR on page 161
- TFTPД\_FIO\_ERR on page 161
- TFTPД\_FORK\_ERR on page 161
- TFTPД\_NAK\_ERR on page 161
- TFTPД\_OPEN\_ERR on page 162
- TFTPД\_RECVCOMPLETE\_INFO on page 162
- TFTPД\_RECVFROM\_ERR on page 162
- TFTPД\_RECV\_ERR on page 162
- TFTPД\_SENDCOMPLETE\_INFO on page 163
- TFTPД\_SEND\_ERR on page 163
- TFTPД\_SOCKET\_ERR on page 163
- TFTPД\_STATFS\_ERR on page 163

## TFTPD\_AF\_ERR

<b>System Log Message</b>	TFTPD_AF_ERR: Unexpected address family <i>address-family</i>
<b>Description</b>	As each hardware component on the router initializes, it requests its configuration file from the TFTP process (tnp.tftpd). The tnp.tftpd process exited because an incoming packet had the indicated, unexpected value in its address family (sockaddr) field.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## TFTPD\_BIND\_ERR

<b>System Log Message</b>	TFTPD_BIND_ERR: bind: <i>error-message</i>
<b>Description</b>	Binding of a socket to an address failed due to a system error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## TFTPD\_CONNECT\_ERR

<b>System Log Message</b>	TFTPD_CONNECT_ERR: connect: <i>error-message</i>
<b>Description</b>	Connection of a socket to an address failed due to a system error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## TFTPD\_CONNECT\_INFO

<b>System Log Message</b>	TFTPD_CONNECT_INFO: TFTP <i>operation-type</i> from address <i>address</i> port <i>port</i> file <i>filename</i>
<b>Description</b>	As each hardware component on the router initializes, it requests its configuration file from the TFTP process (tnp.tftpd). The process established a connection with the indicated characteristics: kind of operation (read or write), address and port connected to, and name of file transferred.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## TFTPD\_CREATE\_ERR

<b>System Log Message</b>	TFTPD_CREATE_ERR: check_space <i>error-message</i>
<b>Description</b>	The TFTPD process (tnp.tftpd) could not create a core dump file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	There is probably not enough free space in the file system where tnp.tftpd tried to create the file.

## TFTPD\_FIO\_ERR

<b>System Log Message</b>	TFTPD_FIO_ERR: ioctl(FIONBIO): <i>error-message</i>
<b>Description</b>	The TFTPD process (tnp.tftpd) could not set the standard input to be nonblocking.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## TFTPD\_FORK\_ERR

<b>System Log Message</b>	TFTPD_FORK_ERR: fork: <i>error-message</i>
<b>Description</b>	As each hardware component on the router initializes, it requests its configuration file from the TFTPD process (tnp.tftpd). To service multiple clients simultaneously, tnp.tftpd calls the fork() system call to make a copy of itself for each request. The system call returned the indicated error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## TFTPD\_NAK\_ERR

<b>System Log Message</b>	TFTPD_NAK_ERR: nak error <i>error-code</i> , <i>error-string</i>
<b>Description</b>	The TFTPD process (tnp.tftpd) sent a negative acknowledgment to a client because of the indicated error condition.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning

## TFTPD\_OPEN\_ERR

<b>System Log Message</b>	TFTPD_OPEN_ERR: Unable to open file ' <i>filename</i> ', error: <i>error-message</i>
<b>Description</b>	The TFTP process (tnp.tftpd) could not open the indicated file because of the indicated error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning

## TFTPD\_RECVCOMPLETE\_INFO

<b>System Log Message</b>	TFTPD_RECVCOMPLETE_INFO: Received <i>blocks</i> blocks of <i>blocksize</i> size for file ' <i>filename</i> '
<b>Description</b>	The TFTP process (tnp.tftpd) received the last portion of a transmitted file. This message records the number of blocks received, the block size used, and the name of the file to which the data was written.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## TFTPD\_RECVFROM\_ERR

<b>System Log Message</b>	TFTPD_RECVFROM_ERR: recvfrom: <i>error-message</i>
<b>Description</b>	The TFTP process (tnp.tftpd) issued the recvfrom() system call when attempting to receive data from the network. The system call failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## TFTPD\_RECV\_ERR

<b>System Log Message</b>	TFTPD_RECV_ERR: recv: <i>error-message</i>
<b>Description</b>	The TFTP process (tnp.tftpd) could not receive data from the network.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## TFTPD\_SENDCOMPLETE\_INFO

<b>System Log Message</b>	TFTPD_SENDCOMPLETE_INFO: Sent <i>blocks</i> blocks of <i>blocksize</i> and 1 block of <i>lastblock</i> for file ' <i>filename</i> '
<b>Description</b>	The TFTP process (tnp.tftpd) successfully sent a file. This message records the number of blocks sent, the block size used, the size of the last block, and the name of the source file.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## TFTPD\_SEND\_ERR

<b>System Log Message</b>	TFTPD_SEND_ERR: send: <i>error-message</i>
<b>Description</b>	The TFTP process (tnp.tftpd) could not send data.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## TFTPD\_SOCKET\_ERR

<b>System Log Message</b>	TFTPD_SOCKET_ERR: socket: <i>error-message</i>
<b>Description</b>	The TFTP process (tnp.tftpd) could not open a socket for data transmission or reception.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## TFTPD\_STATFS\_ERR

<b>System Log Message</b>	TFTPD_STATFS_ERR: statfs <i>filename</i> , error: <i>error-message</i>
<b>Description</b>	The TFTP process (tnp.tftpd) issued the statfs() system call to obtain the status of the file system into which it needed to write a crash file. The system call failed with the indicated error.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error



# Chapter 20

## UI System Log Messages

This chapter describes messages generated by the JUNOS command-line interface (CLI) and management process (mgd), which together form the JUNOS user interface that accepts and processes input from users and client applications.

- UI\_AUTH\_EVENT on page 168
- UI\_AUTH\_INVALID\_CHALLENGE on page 168
- UI\_BOOTTIME\_FAILED on page 168
- UI\_CFG\_AUDIT\_NEW on page 169
- UI\_CFG\_AUDIT\_OTHER on page 169
- UI\_CFG\_AUDIT\_SET on page 169
- UI\_CFG\_AUDIT\_SET\_SECRET on page 170
- UI\_CHILD\_ARGS\_EXCEEDED on page 170
- UI\_CHILD\_CHANGE\_USER on page 170
- UI\_CHILD\_EXEC on page 171
- UI\_CHILD\_EXITED on page 171
- UI\_CHILD\_FOPEN on page 171
- UI\_CHILD\_PIPE\_FAILED on page 172
- UI\_CHILD\_STOPPED on page 172
- UI\_CHILD\_WAITPID on page 172
- UI\_CMDLINE\_READ\_LINE on page 173
- UI\_CMDSET\_EXEC\_FAILED on page 173
- UI\_CMDSET\_FORK\_FAILED on page 173
- UI\_CMDSET\_PIPE\_FAILED on page 174
- UI\_CMDSET\_STOPPED on page 174

- UI\_CMDSET\_WEXITED on page 174
- UI\_CMD\_AUTH\_REGEX\_INVALID on page 175
- UI\_COMMIT on page 175
- UI\_COMMIT\_AT on page 175
- UI\_COMMIT\_AT\_COMPLETED on page 175
- UI\_COMMIT\_AT\_FAILED on page 176
- UI\_COMMIT\_COMPRESS\_FAILED on page 176
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## UI\_AUTH\_EVENT

<b>System Log Message</b>	UI_AUTH_EVENT: Authenticated user ' <i>username</i> ' at level ' <i>authentication-level</i> '
<b>Description</b>	The management process (mgd) authenticated the indicated user.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	unknown

## UI\_AUTH\_INVALID\_CHALLENGE

<b>System Log Message</b>	UI_AUTH_INVALID_CHALLENGE: Received invalid authentication challenge for user ' <i>username</i> ': <i>response</i>
<b>Description</b>	When a user logs onto the router and attempts to authenticate, the CLI and management process (mgd) use a challenge-and-response system to limit the exposure of sensitive information such as passwords and keys. The format of the challenge generated by mgd was incorrect.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_BOOTTIME\_FAILED

<b>System Log Message</b>	UI_BOOTTIME_FAILED: Unable to fetch boot time: <i>error-message</i>
<b>Description</b>	The management process (mgd) could not retrieve the system boot time from the kernel.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_CFG\_AUDIT\_NEW

<b>System Log Message</b>	UI_CFG_AUDIT_NEW: User 'username' action: <i>path unknown</i>
<b>Description</b>	The indicated user created a new configuration object by copying or renaming an existing object as indicated.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## UI\_CFG\_AUDIT\_OTHER

<b>System Log Message</b>	UI_CFG_AUDIT_OTHER: User 'username' action: <i>path "value"</i>
<b>Description</b>	The indicated user deleted, activated, or deactivated a configuration object, as indicated. The JUNOS configuration log facility logged the change.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## UI\_CFG\_AUDIT\_SET

<b>System Log Message</b>	UI_CFG_AUDIT_SET: User 'username' action: <i>path "data" -&gt; "value"</i>
<b>Description</b>	The indicated user set a value for a configuration object, as indicated.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## UI\_CFG\_AUDIT\_SET\_SECRET

<b>System Log Message</b>	UI_CFG_AUDIT_SET_SECRET: User ' <i>username</i> ' action: <i>path-name</i>
<b>Description</b>	The indicated user set a value for a configuration object, as indicated. For security reasons, the actual value (which might be an authentication key or password, for example) is not recorded.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## UI\_CHILD\_ARGS\_EXCEEDED

<b>System Log Message</b>	UI_CHILD_ARGS_EXCEEDED: Too many arguments for child process ' <i>command</i> '
<b>Description</b>	The management process (mgd) invokes some commands on behalf of users. It supplied more arguments than the command's syntax statement specifies.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_CHILD\_CHANGE\_USER

<b>System Log Message</b>	UI_CHILD_CHANGE_USER: Unable to switch to local user: <i>local-user</i>
<b>Description</b>	The management process (mgd) invokes some commands on behalf of users. Its attempt to adopt the UID of the indicated user failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_CHILD\_EXEC

<b>System Log Message</b>	UI_CHILD_EXEC: Child exec failed for command ' <i>command</i> ': <i>error-message</i>
<b>Description</b>	The management process (mgd) invoked the exec() system call while creating a child processes to execute the indicated command on its behalf. The system call failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_CHILD\_EXITED

<b>System Log Message</b>	UI_CHILD_EXITED: Child exited: PID <i>process-id</i> , status <i>exit-statuscore-dump-status</i> , command ' <i>command</i> '
<b>Description</b>	The management process (mgd) created a child process to execute the indicated command for it. The child process exited unexpectedly with the indicated status code.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	notice
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_CHILD\_FOPEN

<b>System Log Message</b>	UI_CHILD_FOPEN: Unable to append to log ' <i>filename</i> ': <i>error-message</i>
<b>Description</b>	The management process (mgd) attempted to save the output from a command in the indicated log file, but could not open the file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_CHILD\_PIPE\_FAILED

<b>System Log Message</b>	UI_CHILD_PIPE_FAILED: Unable to create pipe for command ' <i>command</i> ': <i>error-message</i>
<b>Description</b>	The management process (mgd) created a child process to execute the indicated command for it. Its attempt to create pipes for communication with the child process failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_CHILD\_STOPPED

<b>System Log Message</b>	UI_CHILD_STOPPED: Child stopped: PID <i>process-id</i> , signal= <i>signal-name</i> core-dump, command= ' <i>command</i> ')
<b>Description</b>	The management process (mgd) created a child process to execute the indicated command for it. The child process received the indicated signal and stopped.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	notice
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_CHILD\_WAITPID

<b>System Log Message</b>	UI_CHILD_WAITPID: waitpid failed: PID <i>process-id</i> , rc <i>return-code</i> , status <i>status-code</i> : <i>error-message</i>
<b>Description</b>	The management process (mgd) created a child process to execute a command for it. It could not wait for the child process to finish.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_CMDLINE\_READ\_LINE

<b>System Log Message</b>	UI_CMDLINE_READ_LINE: User ' <i>username</i> ', command ' <i>input</i> '
<b>Description</b>	The indicated user typed the indicated command at the CLI prompt and pressed the Enter key, sending the command string to the management process (mgd).
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## UI\_CMDSET\_EXEC\_FAILED

<b>System Log Message</b>	UI_CMDSET_EXEC_FAILED: Command execution failed for ' <i>command</i> ': <i>error-message</i>
<b>Description</b>	The management process (mgd) called the exec() system call while creating a child process to execute the indicated command for it. The system call failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_CMDSET\_FORK\_FAILED

<b>System Log Message</b>	UI_CMDSET_FORK_FAILED: Unable to fork command ' <i>command</i> ': <i>error-message</i>
<b>Description</b>	The management process (mgd) invoked the fork() system call while creating a child process to execute the indicated command for it. The system call failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The Routing Engine is low on resources
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_CMDSET\_PIPE\_FAILED

<b>System Log Message</b>	UI_CMDSET_PIPE_FAILED: Unable to create pipes for command ' <i>command</i> ': <i>error-message</i>
<b>Description</b>	The management process (mgd) created a child process to execute the indicated command for it. Its attempt to create pipes for communication with the child process failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_CMDSET\_STOPPED

<b>System Log Message</b>	UI_CMDSET_STOPPED: Command stopped: PID <i>process-id</i> , signal ' <i>signal</i> ' <i>core-dump</i> , command ' <i>command</i> '
<b>Description</b>	The management process (mgd) created a child process to execute the indicated command for it. The child process received the indicated signal and stopped.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	notice
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_CMDSET\_WEXITED

<b>System Log Message</b>	UI_CMDSET_WEXITED: Command exited: PID <i>process-id</i> , status <i>statuscode-dump</i> , command ' <i>command</i> '
<b>Description</b>	The management process (mgd) created a child process to execute the indicated command for it. The child process exited abnormally with the indicated status code.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	notice
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_CMD\_AUTH\_REGEX\_INVALID

<b>System Log Message</b>	UI_CMD_AUTH_REGEX_INVALID: Invalid ' <i>allow/deny</i> ' command authorization regular expression ' <i>regular-expression</i> ': <i>error-message</i>
<b>Description</b>	An operation that attempted to set command or configuration authorization included the indicated regular expression. The operation failed because the expression syntax was invalid.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Action</b>	Correct any errors in the regular expression.

## UI\_COMMIT

<b>System Log Message</b>	UI_COMMIT: User ' <i>username</i> ' performed 'commit'
<b>Description</b>	The indicated user performed a 'commit' operation, which activated the candidate configuration.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## UI\_COMMIT\_AT

<b>System Log Message</b>	UI_COMMIT_AT: User ' <i>username</i> ' performed 'commit at <i>time</i> '
<b>Description</b>	The indicated user performed a 'commit at' operation, which scheduled the candidate configuration for activation at the indicated future time.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## UI\_COMMIT\_AT\_COMPLETED

<b>System Log Message</b>	UI_COMMIT_AT_COMPLETED: 'commit at' was successful
<b>Description</b>	Changes to the candidate configuration were activated at the time scheduled by a 'commit at' operation.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## UI\_COMMIT\_AT\_FAILED

<b>System Log Message</b>	UI_COMMIT_AT_FAILED: <i>reason</i> , scheduled commit cleared
<b>Description</b>	A 'commit at' operation did not complete, for the indicated reason.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## UI\_COMMIT\_COMPRESS\_FAILED

<b>System Log Message</b>	UI_COMMIT_COMPRESS_FAILED: Unable to compress file ' <i>filename</i> '
<b>Description</b>	As part of committing a new configuration, the management process (mgd) compresses and saves a copy of the configuration. mgd saved the configuration file in regular format because it could not compress it.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The Routing Engine is low on resources.
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_COMMIT\_CONFIRMED

<b>System Log Message</b>	UI_COMMIT_CONFIRMED: User ' <i>username</i> ' performed 'commit confirmed'
<b>Description</b>	The indicated user performed the 'commit confirmed' operation, which activated the candidate configuration for 10 minutes. If the commit operation is not confirmed within that time, the management process (mgd) will roll back to the previous configuration.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## UI\_COMMIT\_CONFIRMED\_REMINDER

<b>System Log Message</b>	UI_COMMIT_CONFIRMED_REMINDER: 'commit confirmed' must be confirmed within <i>minutes</i> minutes
<b>Description</b>	A 'commit confirmed' operation has activated the candidate configuration temporarily. If the commit is not confirmed within the indicated number of minutes (for example, by the command-line interface (CLI) 'commit' command), the management process (mgd) will roll back to the previous configuration.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## UI\_COMMIT\_CONFIRMED\_TIMED

<b>System Log Message</b>	UI_COMMIT_CONFIRMED_TIMED: User ' <i>username</i> ' performed 'commit confirmed <i>minutes</i> '
<b>Description</b>	The indicated user performed the 'commit confirmed' operation, which activated the candidate configuration for the number of minutes specified. If the commit operation is not confirmed within that time, the management process (mgd) will roll back to the previous configuration.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## UI\_COMMIT\_EMPTY\_CONTAINER

<b>System Log Message</b>	UI_COMMIT_EMPTY_CONTAINER: Skipped empty object ' <i>node-name</i> '
<b>Description</b>	Some container objects are marked for automatic removal from the configuration hierarchy if they are empty when the user who created them changes to the top ([edit]) level of the hierarchy or exits configuration mode. While committing the candidate configuration, the management process (mgd) encountered such an object that was empty but not removed.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info
<b>Cause</b>	When the commit operation began, the user who created the new container object had not populated it and was in configuration mode but not at the top level of the hierarchy.
<b>Action</b>	Populate or remove the empty object before committing the configuration. The user who created the object can remove it by exiting configuration mode or issuing the 'top' command to move to the top level of the hierarchy.

## UI\_COMMIT\_NOT\_CONFIRMED

**System Log Message** UI\_COMMIT\_NOT\_CONFIRMED:  
Commit was not confirmed; *message*

**Description** The 'commit confirmed' operation commits a configuration but requires confirmation within a defined number of minutes for the commit to become permanent. If the commit is not confirmed (by the 'commit' command, for example), the management process (mgd) automatically rolls back to the previously committed configuration. The automatic rollback restores management access to the router in case an error in the configuration blocks access.

**Type** Event: This message reports an event, not an error

**Severity** notice

## UI\_COMMIT\_QUIT

**System Log Message** UI\_COMMIT\_QUIT:  
User '*username*' performed 'commit and-quit'

**Description** The indicated user performed the 'commit and-quit' operation, which activated the candidate configuration and closed the command-line interface (CLI) configuration session.

**Type** Event: This message reports an event, not an error

**Severity** notice

## UI\_COMMIT\_ROLLBACK\_FAILED

**System Log Message** UI\_COMMIT\_ROLLBACK\_FAILED:  
Automatic rollback failed

**Description** The 'commit confirmed' operation commits a configuration but requires confirmation within a defined number of minutes for the commit to become permanent. If the commit is not confirmed (by the 'commit' command, for example), the management process (mgd) automatically rolls back to the previously committed configuration. The 'commit confirmed' operation was not confirmed, but mgd could not roll back the configuration. The configuration might be in an indeterminate state.

**Type** Error: An error occurred

**Severity** error

**Cause** The cause of the problem might be recorded in messages that precede this message in the system log file.

## UI\_CONFIGURATION\_ERROR

<b>System Log Message</b>	UI_CONFIGURATION_ERROR: Process: <i>process</i> , path: <i>path</i> , statement: <i>statement</i> , error: <i>error-message</i>
<b>Description</b>	The indicated process found a problem in its configuration.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error

## UI\_DAEMON\_ACCEPT\_FAILED

<b>System Log Message</b>	UI_DAEMON_ACCEPT_FAILED: <i>Network/Local</i> socket connection accept failed: <i>error-message</i>
<b>Description</b>	The management process (mgd) did not accept an incoming connection request.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_DAEMON\_FORK\_FAILED

<b>System Log Message</b>	UI_DAEMON_FORK_FAILED: Unable to create session child: <i>error-message</i>
<b>Description</b>	The management process (mgd) invokes the fork() system call to create a copy of itself for each CLI session. The system call failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_DAEMON\_SELECT\_FAILED

<b>System Log Message</b>	UI_DAEMON_SELECT_FAILED: select failed: <i>error-message</i>
<b>Description</b>	The management process (mgd) uses the select() system call to listen for incoming connection requests on a socket. The system call failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_DAEMON\_SOCKET\_FAILED

<b>System Log Message</b>	UI_DAEMON_SOCKET_FAILED: <i>Network/Local</i> socket create failed: <i>error-message</i>
<b>Description</b>	The management process (mgd) uses sockets to communicate with other JUNOS software processes running on the router. It could not allocate a socket.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	System resources are exhausted.
<b>Action</b>	Contact your technical support representative.

## UI\_DBASE\_ACCESS\_FAILED

<b>System Log Message</b>	UI_DBASE_ACCESS_FAILED: Unable to reaccess database file ' <i>database-filename</i> ', address <i>address</i> , size <i>size</i> : <i>reason</i>
<b>Description</b>	To increase the size of the configuration database, the management process (mgd) must unmap the database from its address space, change the database size, and remap the database. The remapping operation failed.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_DBASE\_CHECKOUT\_FAILED

<b>System Log Message</b>	UI_DBASE_CHECKOUT_FAILED: Database ' <i>database-filename</i> ' is out of data and needs to be rebuilt
<b>Description</b>	When the router boots, the management process (mgd) checks the configuration database for internal consistency. It found one or more inconsistencies.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	alert
<b>Cause</b>	mgd restarted after new JUNOS software was installed.
<b>Action</b>	None; mgd will rebuild the database.

## UI\_DBASE\_EXTEND\_FAILED

<b>System Log Message</b>	UI_DBASE_EXTEND_FAILED: Unable to extend database file ' <i>database-filename</i> ' to size <i>requested-size</i> . <i>reason</i>
<b>Description</b>	The management process (mgd) could not increase the configuration database to the indicated size.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The hard disk is not present in the router.
<b>Action</b>	Repair or replace the hard disk.
<b>Cause</b>	There is insufficient disk space on the /var partition on the hard disk.
<b>Action</b>	Delete user files from the /var/homes directory to increase the available disk space.

## UI\_DBASE\_LOGIN\_EVENT

<b>System Log Message</b>	UI_DBASE_LOGIN_EVENT: User ' <i>username</i> ' entering configuration mode
<b>Description</b>	The indicated user entered configuration mode (logged into the configuration database).
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## UI\_DBASE\_LOGOUT\_EVENT

<b>System Log Message</b>	UI_DBASE_LOGOUT_EVENT: User ' <i>username</i> ' exiting configuration mode
<b>Description</b>	The indicated user exited configuration mode (logged out of the configuration database).
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## UI\_DBASE\_MISMATCH\_EXTENT

<b>System Log Message</b>	UI_DBASE_MISMATCH_EXTENT: Database header extent mismatch for file ' <i>database-filename</i> ': expecting <i>expected-extent</i> , got <i>discovered-extent</i>
<b>Description</b>	The header in the configuration database records the highest address allocated in the database. The management process (mgd) discovered that the highest address actually allocated in the database does not match the header value.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The database file is corrupted.
<b>Action</b>	Contact your technical support representative.

## UI\_DBASE\_MISMATCH\_MAJOR

<b>System Log Message</b>	UI_DBASE_MISMATCH_MAJOR: Database header major version number mismatch for file ' <i>database-filename</i> ': expecting <i>expected-major-version</i> , got <i>discovered-major-version</i>
<b>Description</b>	For compatibility, the version number recorded in the header of the configuration database must match the version of JUNOS software running on the router. The management process (mgd) discovered that the major parts (for example, '5' in '5.x') of the version numbers do not match.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	A recent software upgrade did not complete successfully.
<b>Action</b>	Issue the 'show version' command to check the JUNOS version. If necessary, issue the 'request system software reboot' command to reboot the router and complete the software installation.
<b>Cause</b>	The database file is corrupted.
<b>Action</b>	Contact your technical support representative.

## UI\_DBASE\_MISMATCH\_MINOR

<b>System Log Message</b>	UI_DBASE_MISMATCH_MINOR: Database header minor version number mismatch for file ' <i>database-filename</i> ': expecting <i>expected-minor-version</i> , got <i>discovered-minor-version</i>
<b>Description</b>	For compatibility, the version number recorded in the header of the configuration database must match the version of JUNOS software running on the router. The management process (mgd) discovered that the minor parts (for example, '2' in 'x.2') of the version numbers do not match.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	A recent software upgrade did not complete successfully.
<b>Action</b>	Issue the 'show version' command to check the JUNOS version. If necessary, issue the 'request system software reboot' command to reboot the router and complete the software installation.
<b>Cause</b>	The database file is corrupted.
<b>Action</b>	Contact your technical support representative.

## UI\_DBASE\_MISMATCH\_SEQUENCE

<b>System Log Message</b>	UI_DBASE_MISMATCH_SEQUENCE: Database header sequence numbers mismatch for file ' <i>database-filename</i> '
<b>Description</b>	The header of the configuration database records the version number of the configuration schema (possible set of statements) used when the database was created. To prevent corruption, all JUNOS processes that access the database must use the same schema. The management process (mgd) discovered that the version number for the JUNOS software installed on the router does not match the header value.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	A recent software upgrade did not complete successfully.
<b>Action</b>	Issue the 'show version' command to check the JUNOS version. If necessary, issue the 'request system software reboot' command to reboot the router and complete the software installation.
<b>Cause</b>	The database file is corrupted.
<b>Action</b>	Contact your technical support representative.

## UI\_DBASE\_MISMATCH\_SIZE

<b>System Log Message</b>	UI_DBASE_MISMATCH_SIZE: Database header size mismatch for file ' <i>database-filename</i> ': expecting <i>expected-size</i> , got <i>discovered-size</i>
<b>Description</b>	The header of the configuration database records the database size. The management process (mgd) discovered that the size of the actual database file does not match the header value.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The database file is corrupted.
<b>Action</b>	Contact your technical support representative.

## UI\_DBASE\_OPEN\_FAILED

<b>System Log Message</b>	UI_DBASE_OPEN_FAILED: Database open failed for file ' <i>database-filename</i> ': <i>reason</i>
<b>Description</b>	The management process (mgd) could not open the indicated configuration database file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The database file does not exist.
<b>Action</b>	Select a different filename or create a new configuration.
<b>Cause</b>	The /config directory does not have sufficient space for a new database.
<b>Action</b>	Remove files from the /config directory to make more space available.

## UI\_DBASE\_REBUILD\_FAILED

<b>System Log Message</b>	UI_DBASE_REBUILD_FAILED: <i>User&lt; username&gt; /Automatic</i> rebuild of the database ' <i>database-filename</i> ' failed
<b>Description</b>	The management process (mgd) could not rebuild the configuration database file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	alert
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_DBASE\_REBUILD\_SCHEMA\_FAILED

<b>System Log Message</b>	UI_DBASE_REBUILD_SCHEMA_FAILED: Automatic rebuild of the database failed
<b>Description</b>	The management process (mgd) could not rebuild the schema for the configuration database.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	alert
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_DBASE\_REBUILD\_STARTED

<b>System Log Message</b>	UI_DBASE_REBUILD_STARTED: <i>User&lt; username&gt; /Automatic rebuild/rollback of the database 'database-filename' started</i>
<b>Description</b>	The management process (mgd) began to rebuild the configuration database file or its schema because that object was not current. The operation will complete shortly.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	alert

## UI\_DBASE\_RECREATE

<b>System Log Message</b>	UI_DBASE_RECREATE: User ' <i>username</i> ' attempting database re-creation
<b>Description</b>	The management process (mgd) discovered that the version of JUNOS software running on the router does not match the version of the current configuration database. In response to a prompt from mgd, the indicated user initiated a rebuilding of the database.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## UI\_DBASE\_REOPEN\_FAILED

<b>System Log Message</b>	UI_DBASE_REOPEN_FAILED: Reopen of the database failed
<b>Description</b>	After rebuilding the schema file for the configuration database, the management process (mgd) closes the file and reopens it in read-only mode to prevent corruption. It could not reopen the file.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	alert
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_DUPLICATE\_UID

<b>System Log Message</b>	UI_DUPLICATE_UID: Users <i>username1</i> and <i>username2</i> have the same UID <i>UID</i>
<b>Description</b>	JUNOS allows multiple user login accounts to share the same UID. This message was logged in case site policy dictates that users should not share UIDs.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice
<b>Action</b>	Assign different UIDs to the affected users.

## UI\_JUNOSCRIPT\_ERROR

<b>System Log Message</b>	UI_JUNOSCRIPT_ERROR: JUNOScript error: <i>error-message</i>
<b>Description</b>	The management process (mgd) normally sends an error message to the JUNOS CLI or JUNOScript API client in an < xnm:error> tag. It could not send the tag, so it sent the indicated error message in an XML comment instead.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	warning
<b>Cause</b>	The 'error-message' argument explains the problem.

## UI\_LOAD\_EVENT

<b>System Log Message</b>	UI_LOAD_EVENT: User ' <i>username</i> ' is performing a ' <i>rollback/load/load override</i> '
<b>Description</b>	The indicated user invoked a 'rollback, ' 'load, ' or 'load override' operation as indicated. The existing configuration database was deleted and a new database created based on a text file.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## UI\_LOGIN\_EVENT

<b>System Log Message</b>	UI_LOGIN_EVENT: User ' <i>username</i> ' login, class ' <i>class</i> ' <i>local-name</i> [ <i>process-id</i> ]
<b>Description</b>	The indicated user started a JUNOS CLI session.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## UI\_LOGOUT\_EVENT

<b>System Log Message</b>	UI_LOGOUT_EVENT: User ' <i>username</i> ' logout
<b>Description</b>	The indicated user exited from a JUNOS CLI session.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	info

## UI\_LOST\_CONN

<b>System Log Message</b>	UI_LOST_CONN: Lost connection to daemon ' <i>daemon-name</i> '
<b>Description</b>	The management process (mgd) uses sockets to communicate with other JUNOS software processes. The socket it was using for the indicated process closed prematurely.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_MASTERSHIP\_EVENT

<b>System Log Message</b>	UI_MASTERSHIP_EVENT: <i>Force/Acquire/Release/Toggle card-name mastership by 'username'</i>
<b>Description</b>	Some redundant router components use a master/standby system in which the master component is active and the standby is inactive but ready to assume mastership. The indicated user performed the indicated operation to modify component mastership.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning

## UI\_MGD\_TERMINATE

<b>System Log Message</b>	UI_MGD_TERMINATE: Terminating operation: exit status <i>exit-code</i>
<b>Description</b>	The management process (mgd) encountered an error and exited, returning the indicated code as its exit status code.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The cause of the problem might be recorded in messages that precede this message in the system log file.

## UI\_READ\_FAILED

<b>System Log Message</b>	UI_READ_FAILED: read failed for peer <i>peer-name</i> : <i>error-message</i>
<b>Description</b>	The management process (mgd) uses the read() system call to access data sent by other JUNOS processes running on the router (referred to as its peers). The system call failed for the indicated process.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_READ\_TIMEOUT

<b>System Log Message</b>	UI_READ_TIMEOUT: Timeout on read of peer ' <i>peer-name</i> '
<b>Description</b>	When communicating with other JUNOS processes running on the router (referred to as peers), the management process (mgd) waits only for a defined timeout period for responses to arrive. The timeout period passed for the indicated process.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

## UI\_REBOOT\_EVENT

<b>System Log Message</b>	UI_REBOOT_EVENT: System <i>halt/reboot</i> by ' <i>username</i> '
<b>Description</b>	The indicated software process restarted as requested by the indicated user.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning

## UI\_RESTART\_EVENT

<b>System Log Message</b>	UI_RESTART_EVENT: User ' <i>username</i> ' restarting daemon ' <i>daemon</i> ' <i>description</i>
<b>Description</b>	The indicated software process restarted as requested by the indicated user.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	warning

## UI\_SCHEMA\_CHECKOUT\_FAILED

<b>System Log Message</b>	UI_SCHEMA_CHECKOUT_FAILED: Schema is out of date and needs to be rebuilt
<b>Description</b>	The JUNOS user interface schema file records all CLI commands and configuration statements available in the JUNOS software. While initializing, the new management process (mgd) determined that the schema's sequence number means that the schema is incompatible with the JUNOS software installed on the router.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	alert
<b>Cause</b>	The schema is out of date.
<b>Action</b>	None; mgd will rebuild the schema based on the current JUNOS version.

## UI\_SCHEMA\_MISMATCH\_MAJOR

<b>System Log Message</b>	UI_SCHEMA_MISMATCH_MAJOR: Schema major version mismatch for package <i>package-number</i> ( <i>expected</i> vs. <i>offered</i> )
<b>Description</b>	The JUNOS user interface schema file records all CLI commands and configuration statements available in the JUNOS software. While initializing, the management process (mgd) discovered that the major part (for example, '5' in '5.x') of the schema version number does not match the major version number of the JUNOS software installed on the router. The mismatch could lead to corruption of the configuration database.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The schema is incompatible with the installed JUNOS software.
<b>Action</b>	None; mgd will rebuild the schema based on the current JUNOS version.
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_SCHEMA\_MISMATCH\_MINOR

<b>System Log Message</b>	UI_SCHEMA_MISMATCH_MINOR: Schema minor version mismatch for package <i>package-number</i> ( <i>expected</i> vs. <i>offered</i> )
<b>Description</b>	The JUNOS user interface schema file records all CLI commands and configuration statements available in the JUNOS software. While initializing, the management process (mgd) discovered that the minor part (for example, '2' in 'x.2') of the schema version number does not match the major version number of the JUNOS software installed on the router. The mismatch could lead to corruption of the configuration database.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	The schema is incompatible with the installed JUNOS software.
<b>Action</b>	None; mgd will rebuild the schema based on the current JUNOS version.
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_SCHEMA\_MISMATCH\_SEQUENCE

<b>System Log Message</b>	UI_SCHEMA_MISMATCH_SEQUENCE: Schema header sequence numbers mismatch for package <i>package-number</i>
<b>Description</b>	The JUNOS user interface schema file records all CLI commands and configuration statements available in the JUNOS software. Schema sequence numbers serve as a checksum of the configuration data schema and ensure that the software used to access the database understands the data. The value in the database file did not match the expected value.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Cause</b>	Broken software installation.
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_SCHEMA\_SEQUENCE\_ERROR

<b>System Log Message</b>	UI_SCHEMA_SEQUENCE_ERROR: Schema sequence number mismatch
<b>Description</b>	The JUNOS user interface schema file records all CLI commands and configuration statements available in the JUNOS software. The management process (mgd) rebuilds the schema as necessary to be compatible with the JUNOS software installed on the router. A sequence number in the schema acts as a checksum that represents its content and format. A JUNOS process attempted to access the schema but determined that the schema's sequence number means that it is incompatible with the process.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	alert
<b>Cause</b>	An internal software failure occurred.
<b>Action</b>	Contact your technical support representative.

## UI\_VERSION\_FAILED

<b>System Log Message</b>	UI_VERSION_FAILED: Unable to fetch system version: <i>error-message</i>
<b>Description</b>	The management process (mgd) could not retrieve version information from the kernel.
<b>Type</b>	Error: An error occurred
<b>Severity</b>	error
<b>Action</b>	Contact your technical support representative.

## UI\_WRITE\_RECONNECT

<b>System Log Message</b>	UI_WRITE_RECONNECT: Re-establishing connection to peer ' <i>peer-name</i> '
<b>Description</b>	The management process (mgd) reconnected to the indicated JUNOS process running on the router.
<b>Type</b>	Event: This message reports an event, not an error
<b>Severity</b>	notice

# Part 3

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